

From: Bowman, Amy
Sent: Wednesday, February 09, 2005 9:04 AM
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Subject: sequence search-10/820,820 10/820,820

Please search SEQ ID NO: 4 in application 10/820,820, length limited to 150 nucleotides.

Thank you,
Amy Bowman
AU 1635

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Searcher: _____

Searcher Phone: 2-
21605

Date Searcher Picked up: _____

Date Completed: *SP/20/05*

Searcher Prep/Rev/Time: _____

Online Time: _____

Type of Search
NA Sequence: # 1
AA Sequence :# _____
Structure: # _____
Bibliographic: _____
Litigation: _____
Patent Family: _____
Other: _____

Vendors and cost where applicable

STN: _____

DIALOG: _____

QUESTEL/ORBIT: _____

LEXIS/NEXIS: _____

SEQUENCE SYSTEM: 101

WWW/Internet: _____

Other(Specify): _____

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ACCESSION		AX138447							
VERSION		AX138447.1	GI:14274343						
KEYWORDS									
ORGANISM		synthetic construct							
REFERENCE		synthetic construct							
AUTHORS		other sequences; artificial sequences.							
TITLE		1	Taira, K., Warashina, M., Kuwabara, T. and Kawasaki, H.						
JOURNAL		Functional ribozyme, chimeric molecules capable of sliding							
PATENT		Patent: EP 1097993-A 8 09-MAY-2001;							
SECRETARY		Secretary of Agency of Industrial Science and Technology (JP)							
TAIRA		Kazunari (JP)							
LOCATION		Location/Qualifiers							
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DEFINITION	Sequence 5 from Patent EP1213351.							
ACCESSION	AX453846							
VERSION	AX453846.1							
KEYWORDS								
SOURCE								
ORGANISM								
OTHER SEQUENCES								
1	ACCGUUGGUUCGGUAGUGUAGUGGUUACGUUCGUCCUACACGGGAAAGGUCCCGG	60						
AUTHORS	Taira, K., Warashina, M. and Warashina, T.							
TITLE	Nucleic acid enzymes acquiring an activity for cleaving a target							
JOURNAL	RNA by recognising another molecule							
PATENT	EP 1213351-A 5 12-JUN-2002;							
NATIONAL INSTITUTE OF ADVANCED INDUSTRIAL SCIENCE AND TECHNOLOGY	(JP)							
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RESULT 11								
BD174675								
LOCUS	BD174675	117 bp	DNA	linear	PAT 18-MAR-2003			
DEFINITION	Ribozyme expression system.							
ACCESSION	BD174675							
VERSION	BD174675.1	GI:2910365						
KEYWORDS	JP 2002262880-A/1.							
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ORGANISM								
OTHER SEQUENCES								
1	(bases 1 to 117)							
REFERENCE								
AUTHORS	Takebe, Y. and Okawa, J.							
TITLE	Ribozyme expression system							
JOURNAL	Patent: JP 2002262880-A 1 17-SEP-2002;							
COMMENT	DIRECTOR GENERAL OF NATIONAL INSTITUTE OF INFECTIONS DISEASES, YUTAKA TAKEBE, JUN OKAWA							
OS	Artificial Sequence							
PN	JP 2002262880-A/1							
PP	17-SEP-2002							
PP	09-MAR-2001	JP 2001067253						
PI	YUTAKA TAKEBE, JUN OKAWA							
PC	C12N5/09, A61K3/71, A61K35/76, A61K48/00, A61P31/18, C12N5/10,							
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CC	CC							
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ACCESSION	BD143601							
VERSION	BD143601.1	GI:27849359						
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KEYWORDS	JP 2002125685-A/2.
SOURCE	synthetic construct
ORGANISM	synthetic construct
REFERENCE	Other sequences; artificial sequences.
AUTHORS	Taira, K. and Sano, M.
TITLE	Method of selecting high-function nucleic acid molecule in cell
JOURNAL	Patent: JP 2002125685-A 08-MAY-2002; DIRECTOR GENERAL OF NATIONAL INSTITUTE OF ADVANCED INDUSTRIAL SCIENCE AND TECHNOLOGY, KAZUNARI TAIRA
COMMENT	OS Artificial Sequence
PN	JP 2002125685-A/2
PD	08-MAY-2002
PF	30-OCT-2000 JP 2000331347
PI	KAZUNARI TAIRA, MASATUKI SANO
PC	C12N15/09, C12B9/00, C12Q1/02, C12Q1/25, C12Q1/68, C12N15/00 CC
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ACCESSION	AX429079
VERSION	AX429079.1 GI:21504049
KEYWORDS	synthetic construct
ORGANISM	synthetic construct
REFERENCE	Other sequences; artificial sequences.
AUTHORS	Taira, K. and Sano, M.
TITLE	Method for selecting highly functional nucleic acid molecules within cells
JOURNAL	Patent: EP 1201751-A 02-MAY-2002; National Institute of Advanced Industrial Science and Technology (JPN)
FEATURES	source
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Best Local Similarity	70.9%; Pred. No. 9_5e-15;
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Db	61 UTCGAACCGGGGGAAACAAAGACA 86
LOCUS	AX453858
DEFINITION	Sequence 17 from Patent EP1213351.
ACCESSION	AX453858
VERSION	AX453858.1 GI:21713527
KEYWORDS	synthetic construct
ORGANISM	synthetic construct
REFERENCE	Other sequences; artificial sequences.
AUTHORS	Taira, K., Warashina, M. and Warashina, T.
TITLE	Nucleic acid enzymes acquiring an activity for cleaving a target RNA by recognising another molecule
JOURNAL	Patent: EP 1213351-A 17-12-JUN-2002; National Institute of Advanced Industrial Science and Technology (JPN)
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DEFINITION	Sequence 52 from Patent EP1097993.
ACCESSION	AX138491
VERSION	AX138491.1 GI:14274387
KEYWORDS	synthetic construct
ORGANISM	synthetic construct
REFERENCE	Other sequences; artificial sequences.
AUTHORS	Taira, K., Warashina, M., Kuwahara, T. and Kawasaki, H.
TITLE	Functional ribozyme chimeric molecules capable of sliding
JOURNAL	Patent: EP 1097993-A 52-09-MAY-2001; Secretary of Agency of Industrial Science and Technology (JPN); Taira, Kazunari (JPN)
FEATURES	source
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Search completed: February 18, 2005, 22:02:39
Job time : 1459 secs

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GenCore version 5.1.6

OM nucleic - nucleic search, using sw model

Run on: February 18, 2005, 21:07:17 ; Search time 98 Seconds

Title: US-10-820-820-4

Perfect score: 95

Sequence: 1 accggugguuuccguagu. aaacaagacagacguuuu 95

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 120284 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 1367770

Minimum DB seq length: 0

Maximum DB seq length: 150

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA:*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	95	100.0	95	4 US-09-563-590-4 Sequence 4, Appli
2	79	83.5	133	5 PCT-US94-05700-17 Sequence 17, Appli
3	76.8	80.8	132	1 US-08-245-742A-17 Sequence 17, Appli
4	76.8	80.8	132	1 US-08-465-483-17 Sequence 17, Appli
5	76.8	80.8	132	3 US-08-876-961-17 Sequence 17, Appli
6	74	77.9	128	4 US-09-563-590-3 Sequence 3, Appli
7	73	76.8	135	4 US-09-563-590-1 Sequence 1, Appli
8	73	76.8	141	4 US-09-573-590-2 Sequence 2, Appli
9	69.8	73.5	149	4 US-09-563-590-5 Sequence 5, Appli
10	66.8	70.3	113	4 US-09-563-590-7 Sequence 7, Appli
11	66	69.5	110	4 US-09-783-590-6 Sequence 6, Appli
12	25	26.3	106	4 US-09-563-590-13 Sequence 13, Appli
13	25	26.3	109	4 US-09-563-590-12 Sequence 12, Appli
14	23	24.2	81	4 US-09-355-221-6 Sequence 6, Appli
15	22.4	23.6	24	4 US-09-563-798B-71 Sequence 71, Appli
16	22.2	23.4	149	4 US-09-513-999C-10149 Sequence 10149, Appli
17	21.8	22.9	86	1 US-08-447-168A-212 Sequence 212, Appli
18	21.8	22.9	86	4 US-09-860-477-212 Sequence 212, Appli
19	21.2	22.3	66	4 US-08-227-476-2 Sequence 2, Appli
20	21	22.1	64	1 US-08-055-390-10 Sequence 10, Appli
21	22.1	78	4 US-09-270-767-29068 Sequence 29068, Appli	
22	20.4	21.5	93	4 US-09-715-859-9 Sequence 9, Appli
23	20.4	21.5	94	2 US-08-785-570-7 Sequence 7, Appli
24	20.4	21.5	94	3 US-09-121-162-1 Sequence 1, Appli
25	20.4	21.5	94	3 US-09-05-337-7 Sequence 7, Appli
26	20.4	21.5	94	4 US-09-688-728-1 Sequence 1, Appli
27	20.4	21.5	114	1 US-08-145-622-4 Sequence 4, Appli

DIV 8 HIS

ALIGNMENTS

RESULT 1

US-09-763-590-4

SEQUENCE 4, Application US/09763590

GENERAL INFORMATION:

APPLICANT: TATRA, KAZUNARI

APPLICANT: OHKAWA, JUN

APPLICANT: KOSKEI, SHIORI

TITLE OF INVENTION: EXPRESSION SYSTEMS FOR TRANSCRIPTION OF FUNCTIONAL NUCLEAR ACIDS

FILE REFERENCE: 04853-0059-00000

CURRENT APPLICATION NUMBER: US/09-763, 590

PRIOR APPLICATION NUMBER: PCT/JP99/4718

PRIOR FILING DATE: 1999-01-31

PRIOR APPLICATION NUMBER: JP 10/244755

PRIOR FILING DATE: 1998-08-31

NUMBER OF SEQ ID NOS: 25

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 4

LENGTH: 95

TYPE: RNA

ORGANISM: Artificial Sequence

FEATURE: OTHER INFORMATION: Description of Artificial Sequence: Nucleotide sequence of the transcript of human placental tRNA Val

OTHER INFORMATION: Sequence of the transcript of human placental tRNA Val

US-09-763-590-4

Query Match 100.0%; Score 95; DB 4; Length 95;

Best Local Similarity 100.0%; Pred. No. 1.9e-27;

Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACCGATGGGTTTCCGGAGAGAGAGAGGGTAAAGCAGGGCTTACACGGGAAGGUCCCCGG 60

DB 1 ACCGGGGGTTTCCGGAGAGAGAGGGTAAAGCAGGGCTTACACGGGAAGGUCCCCGG 60

QY 61 UUCGAAACCGGGGAAACAAAGACAGUCGUU 95

DB 61 UUCGAAACCGGGGAAACAAAGACAGUCGUU 95

RESULT 2

PCT-US94-05700-17

GENERAL INFORMATION:

APPLICANT: THE REGENTS OF THE UNIVERSITY OF CALIFORNIA

TITLE OF INVENTION: RIBOZYME GENE THERAPY FOR HIV INFECTION AND AIDS

NUMBER OF SEQUENCES: 18

CORRESPONDENCE ADDRESS:

ADDRESSEE: ROBBINS, BERLINER & CARSON

CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US 08/245,742A
; FILING DATE: 17-MAY-1994
; CLASSIFICATION: 514
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: US 08/062,465
; FILING DATE: 17-MAY-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Weber, Kenneth A.
; REGISTRATION NUMBER: 31,677
; REFERENCE/DOCKET NUMBER: 2307E-567-10
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 543-9600
; TELEFAX: (415) 543-5043
; INFORMATION FOR SEQ ID NO: 17:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 132 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 97-97
; OTHER INFORMATION: /note= "W = INTERNAL NUCLEOTIDE
; OTHER INFORMATION: SEQUENCE"
; PCT-US94-05700-17

Query Match
; Best Local Similarity 83.2%; Score 79; DB 5; Length 133;
; Matches 64; Conservative 21; Mismatches 10; Indels 0; Gaps 0;
; OTHER INFORMATION: /note= "W = INTERNAL NUCLEOTIDE
; OTHER INFORMATION: SEQUENCE"
; PCT-US94-05700-17

RESULT 3
US-08-245-742A-17
; Sequence 17, Application US/08245742A
; Patent No. 5,670,361
; GENERAL INFORMATION:
; APPLICANT: Wong-Staal, Flossie
; APPLICANT: Yu, Mang
; APPLICANT: Yamada, Osamu
; APPLICANT: Ojwang, Joshua O.
; APPLICANT: Leavitt, Mark
; APPLICANT: Ho, Anthony
; TITLE OF INVENTION: Ribozyme Gene Therapy for HIV Infection
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Crew
; STREET: One Market Plaza, Steuart Street Tower
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94105-1492
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US 08/465,483
; FILING DATE: 05-JUN-1995
; CLASSIFICATION: 514

Query Match
; Best Local Similarity 67.4%; Score 79; DB 5; Length 133;
; Matches 64; Conservative 21; Mismatches 10; Indels 0; Gaps 0;
; OTHER INFORMATION: /note= "W = INTERNAL NUCLEOTIDE
; OTHER INFORMATION: SEQUENCE"
; PCT-US94-05700-17

RESULT 4
US-08-465-483-17
; Sequence 17, Application US/08465483
; Patent No. 5,811,275
; GENERAL INFORMATION:
; APPLICANT: Wong-Staal, Flossie
; APPLICANT: Yu, Mang
; APPLICANT: Yamada, Osamu
; APPLICANT: Ojwang, Joshua O.
; APPLICANT: Leavitt, Mark
; APPLICANT: Ho, Anthony
; TITLE OF INVENTION: Ribozyme Gene Therapy for HIV Infection
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Crew
; STREET: One Market Plaza, Steuart Street Tower
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94105-1492
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US 08/465,483
; FILING DATE: 05-JUN-1995
; CLASSIFICATION: 514

US-09-763-590-2

Query Match 76.8%; Score 73; DB 4; Length 141;
Best Local Similarity 93.8%; Pred. No. 8.3e-19; Mismatches 0;
Matches 76; Conservative 0; Indels 0; Gaps 0;

Qy 1 ACCGUGUAGAUUCGGUAGUGUAGUGGUUAUCGUUCGUACCGGAAAGGUCCCGG 60
Db 1 ACCGUGUAGAUUCGGUAGUGUAGUGGUUAUCGUUCGUACCGGAAAGGUCCCGG 60

US-09-763-590-1

Query Match 76.8%; Score 73; DB 4; Length 141;
Best Local Similarity 93.8%; Pred. No. 8.3e-19; Mismatches 5; Indels 0; Gaps 0;

Sequence 1, Application US/09763590
; Patent No. 6740750
; GENERAL INFORMATION:
; APPLICANT: TAIRA, KAZUNARI
; APPLICANT: KOSEKI, SHIORI
; TITLE OF INVENTION: EXPRESSION SYSTEMS FOR TRANSCRIPTION OF FUNCTIONAL
; TITLE OF INVENTION: NUCLEIC ACIDS
; FILE REFERENCE: 04853.0059-00000
; CURRENT APPLICATION NUMBER: US/09/763, 590
; CURRENT FILING DATE: 2001-06-05
; PRIORITY APPLICATION NUMBER: PCT/JP99/04718
; PRIORITY FILING DATE: 1998-08-31
; PRIORITY APPLICATION NUMBER: JP 10/244755
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 135
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
; OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
; OTHER INFORMATION: Sequence of Rz2
; US-09-763-590-1

Query Match 76.8%; Score 73; DB 4; Length 135;
Best Local Similarity 93.8%; Pred. No. 8.1e-19; Mismatches 5; Indels 0; Gaps 0;
Matches 76; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 ACCGUGUAGAUUCGGUAGUGUAGUGGUUAUCGUUCGUACCGGAAAGGUCCCGG 60
Db 1 ACCGUGUAGAUUCGGUAGUGUAGUGGUUAUCGUUCGUACCGGAAAGGUCCCGG 60

RESULT 8

US-09-763-590-2

Query Match 76.8%; Score 73; DB 4; Length 149;
Best Local Similarity 97.3%; Pred. No. 1.5e-17; Mismatches 2; Indels 0; Gaps 0;
Matches 76; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 ACCGUGUAGAUUCGGUAGUGUAGUGGUUAUCGUUCGUACCGGAAAGGUCCCGG 60
Db 1 ACCGUGUAGAUUCGGUAGUGUAGUGGUUAUCGUUCGUACCGGAAAGGUCCCGG 60

US-09-763-590-5

Query Match 73.5%; Score 69.8; DB 4; Length 149;
Best Local Similarity 97.3%; Pred. No. 1.5e-17; Mismatches 2; Indels 0; Gaps 0;
Matches 71; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 ACCGUGUAGAUUCGGUAGUGUAGUGGUUAUCGUUCGUACCGGAAAGGUCCCGG 60
Db 1 ACCGUGUAGAUUCGGUAGUGUAGUGGUUAUCGUUCGUACCGGAAAGGUCCCGG 60

US-09-763-590-7/C

Query Match 73.5%; Score 69.8; DB 4; Length 149;
Best Local Similarity 97.3%; Pred. No. 1.5e-17; Mismatches 2; Indels 0; Gaps 0;
Matches 71; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 ACCGUGUAGAUUCGGUAGUGUAGUGGUUAUCGUUCGUACCGGAAAGGUCCCGG 60
Db 1 ACCGUGUAGAUUCGGUAGUGUAGUGGUUAUCGUUCGUACCGGAAAGGUCCCGG 60

RESULT 10

US-09-763-590-7/C

Query Match 73.5%; Score 69.8; DB 4; Length 149;
Best Local Similarity 97.3%; Pred. No. 1.5e-17; Mismatches 2; Indels 0; Gaps 0;

Sequence 7, Application US/09763590
; Patent No. 6740750
; GENERAL INFORMATION:
; APPLICANT: TAIRA, KAZUNARI
; APPLICANT: OKAWA, JUN
; APPLICANT: KOSEKI, SHIORI
; TITLE OF INVENTION: EXPRESSION SYSTEMS FOR TRANSCRIPTION OF FUNCTIONAL
; TITLE OF INVENTION: NUCLEIC ACIDS
; FILE REFERENCE: 04853.0059-00000
; CURRENT APPLICATION NUMBER: US/09/763, 590
; CURRENT FILING DATE: 2001-06-05
; PRIORITY APPLICATION NUMBER: PCT/JP99/04718
; PRIORITY FILING DATE: 1998-08-31
; PRIORITY APPLICATION NUMBER: JP 10/244755
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 141
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
; OTHER INFORMATION: Sequence of Rz3
; OTHER INFORMATION: Description of Artificial Sequence: Nucleotide

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; NUMBER OF SEQ ID NOS: 25 ; APPLICANT: OHKAWA, JUN
; SOFTWARE: PatentIn Ver. 2.1 ; APPLICANT: KOSEKI, SHIORI
; SEQ ID NO: 7 ; TITLE OF INVENTION: EXPRESSION SYSTEMS FOR TRANSCRIPTION OF FUNCTIONAL
; LENGTH: 113 ; TITLE OF INVENTION: NUCLEIC ACIDS
; TYPE: DNA ; FILE REFERENCE: 04853_0059-00000
; ORGANISM: Artificial Sequence ; CURRENT APPLICATION NUMBER: US/09/763,590
; FEATURE: OTHER INFORMATION: Description of Artificial Sequence: Sequence of an ; CURRENT FILING DATE: 2001-06-05
; Patents: ; Prior Application Number: PCT/JP99/04718
; OTHER INFORMATION: antisense oligonucleotide linker ; PROR FILING DATE: 1999-08-31
; US-09-763-590-7 ; PROR APPLICATION NUMBER: JP 10/244755
; PROR FILING DATE: 1998-08-31
; QUERY Match 70.3%; Score 66.8; DB 4; Length 113;
; Best Local Similarity 71.4%; Pred. No. 2e-16; Indels 0; Gaps 0;
; Matches 50; Conservative 18; Mismatches 2; Indels 0; Gaps 0;
; QY 1 ACCGGUAGAUUCGUAGUAGUAGUGGUACUCCGUACGGGAAGGUCCGG 60
; Db 71 ACCGTTGGTTCCGTTAGTTAGGGTATCACGTTGCCTACACGGAAAGTCCGG 12
; QY 61 UUUGAAACCG 70
; Db 11 TTGGAAGTCG 2
; RESULT 11 ; NUMBER OF SEQ ID NOS: 25
; US-09-763-590-6 ; SOFTWARE: PatentIn Ver. 2.1
; Sequence 6, Application US/09763590 ; SEQ ID NO: 13
; Patent No. 6740750 ; LENGTH: 106
; GENERAL INFORMATION ; TYPE: DNA
; APPLICANT: TAIRA, KAZUNARI ; ORGANISM: Artificial Sequence
; APPLICANT: OHKAWA, JUN ; FEATURE: OTHER INFORMATION: Description of Artificial Sequence: Sequence of a
; APPLICANT: KOSEKI, SHIORI ; Patents: ; Prior Application Number: PCT/JP99/04718
; TITLE OF INVENTION: EXPRESSION SYSTEMS FOR TRANSCRIPTION OF FUNCTIONAL ; OTHER INFORMATION: lower primer including the sequences of Rz3 and a
; FILE REFERENCE: 04853_0059-00000 ; OTHER INFORMATION: terminator
; CURRENT APPLICATION NUMBER: US/09/763,590 ; US-09-763-590-13
; CURRENT FILING DATE: 2001-06-05 ; QUERY Match 26.3%; Score 25; DB 4; Length 106;
; PRIOR APPLICATION NUMBER: PCT/JP99/04718 ; Best Local Similarity 88.0%; Pred. No. 4.2; Indels 0; Gaps 0;
; PRIOR FILING DATE: 1999-08-31 ; Matches 22; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
; PRIOR APPLICATION NUMBER: JP 10/244755 ; QY 49 AAAGGUTCCCGGUACGAAACCGGGC 73
; PRIOR FILING DATE: 1998-08-31 ; Db 106 AAAGGTCGGGGTTCGAAACCGGGC 82
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO: 6
; LENGTH: 110
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE: OTHER INFORMATION: Description of Artificial Sequence: Sequence of a
; Patents: ; Prior Application Number: PCT/JP99/04718
; OTHER INFORMATION: sense oligonucleotide linker ; US-09-763-590-6
; RESULT 13 ; NUMBER OF SEQ ID NOS: 25
; US-09-763-590-12/C ; SOFTWARE: PatentIn Ver. 2.1
; Sequence 12, Application US/09763590 ; SEQ ID NO: 12
; Patent No. 6740750 ; LENGTH: 109
; GENERAL INFORMATION ; TYPE: DNA
; APPLICANT: TAIRA, KAZUNARI ; ORGANISM: Artificial Sequence
; APPLICANT: OHKAWA, JUN ; FEATURE: OTHER INFORMATION: Description of Artificial Sequence: Sequence of a
; APPLICANT: KOSEKI, SHIORI ; Patents: ; Prior Application Number: PCT/JP99/04718
; TITLE OF INVENTION: EXPRESSION SYSTEMS FOR TRANSCRIPTION OF FUNCTIONAL ; OTHER INFORMATION: terminator
; FILE REFERENCE: 04853_0059-00000 ; US-09-763-590-12
; CURRENT APPLICATION NUMBER: US/09/763,590 ; QUERY Match 69.5%; Score 66; DB 4; Length 110;
; CURRENT FILING DATE: 2001-06-05 ; Best Local Similarity 72.7%; Pred. No. 4.1e-16; Indels 0; Gaps 0;
; PRIOR APPLICATION NUMBER: PCT/JP99/04718 ; Matches 48; Conservative 18; Mismatches 0; Indels 0; Gaps 0;
; PRIOR FILING DATE: 1999-08-31 ; QY 1 ACCGGUAGAUUCGUAGUAGUAGUGGUACUCCGUACGGGAAGGUCCGG 60
; NUMBER OF SEQ ID NOS: 25 ; Db 44 ACCGTTGGTTCCGTTAGTTAGGGTATCACGTTGCCTACACGGAAAGTCCGG 103
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO: 12
; LENGTH: 109
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE: OTHER INFORMATION: Description of Artificial Sequence: Sequence of a
; Patents: ; Prior Application Number: PCT/JP99/04718
; OTHER INFORMATION: lower primer including the sequences of Rz2 and a ; OTHER INFORMATION: lower primer including the sequences of Rz2 and a
; Patents: ; Prior Application Number: PCT/JP99/04718
; OTHER INFORMATION: terminator ; OTHER INFORMATION: terminator
; US-09-763-590-12 ; RESULT 12
; QUERY Match 26.3%; Score 25; DB 4; Length 109;
; Best Local Similarity 88.0%; Pred. No. 4.2; Indels 0; Gaps 0;
; Matches 22; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
; QY 49 AAAGGUTCCCGGUACGAAACCGGGC 73
; Db 109 AAAGGTCGGGGTCAACCGGGC 85
; GENERAL INFORMATION
; APPLICANT: TAIRA, KAZUNARI
; APPLICANT: TAIRA, KAZUNARI
; RESULT 14

```

US-09-355-221-6/c
 Sequence 6, Application US/09355221
 Patent No. 6505429
 GENERAL INFORMATION:
 APPLICANT: Barber, Jack
 APPLICANT: Welch, Peter
 APPLICANT: Vei, Soopin
 APPLICANT: Tritz, Richard
 APPLICANT: Immusol Incorporated

TITLE OF INVENTION: Target-Specific Ribozyme Gene Vector Libraries
 FILE REFERENCE: 01655-6-0300105
 CURRENT APPLICATION NUMBER: US/09/355,221
 CURRENT FILING DATE: 1999-07-23
 PRIOR APPLICATION NUMBER: US 60/037,352
 PRIOR FILING DATE: 1997-01-23
 PRIOR APPLICATION NUMBER: WO PCT/US98/01196
 PRIOR FILING DATE: 1998-01-21
 NUMBER OF SEQ ID NOS: 14
 SOFTWARE: PatentIn version 2.1
 SEQ ID NO 6
 LENGTH: 81

TYPE: DNA

ORGANISM: Artificial Sequence

FEATURE:
 OTHER INFORMATION: Description of Artificial Sequence: tRNA-ribozyme lib
 FEATURE:
 NAME/KEY: misc_feature

LOCATION: (11..(81))
 OTHER INFORMATION: n = g, a, c or t

US-09-355-221-6

Query Match Score 23; DB 4; Length 81;
 Best Local Similarity 91.3%; Pred. No. 23;
 Matches 21; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 58 CGGUUCGAACCGGGGGAAACA 80
 Db 81 CGGTTGCAAGCCGGGGAAACA 59

RESULT 15

US-09-563-794B-71

; Sequence 71, Application US/09563794B
 ; Patent No. 680876
 ; GENERAL INFORMATION:

; APPLICANT: KRUEGER, MARTIN
 ; APPLICANT: WELCH, PETER J.
 ; APPLICANT: BARBER, JACK R.
 ; TITLE OF INVENTION: CELLULAR REGULATORS OF INFECTIOUS AGENTS AND METHODS OF
 ; TITLE OF INVENTION: USE
 ; FILE REFERENCE: 039116-0801
 ; CURRENT APPLICATION NUMBER: US/09/563, 794B
 ; CURRENT FILING DATE: 2000-05-02
 ; NUMBER OF SEQ ID NOS: 144
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 71
 ; LENGTH: 24

; TYPE: DNA
 ; FEATURE:
 ; ORGANISM: Artificial Sequence

; OTHER INFORMATION: Description of Artificial Sequence: synthetic
 US-09-563-794B-71
 ; OTHER INFORMATION: primer

Query Match Score 22.4; DB 4; Length 24;
 Best Local Similarity 70.8%; Pred. No. 26;
 Matches 17; Conservative 6; Mismatches 1; Indels 0; Gaps 0;
 Qy 24 GGUUUCACGUCCGCUAACACGC 47
 Db 1 GGTTATCACCCTCGCCTCAACGC 24

Search completed: February 18, 2005, 22:34:48
 Job time : 100 secs

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GenCore version 5.1.6

Om nucleic - nucleic search, using sw model

Run on: February 18, 2005, 21:38:28 ; Search time 253 Seconds
(without alignments)

235.207 Million cell updates/sec

Title: US-10-820-820-4

Perfect score: 1

Sequence: accggugguuuucguagu...aaacaagacagacguuuu 95.

Scoring table: IDENTITY_NUC

GapPen 10.0 , Gapext 1.0

Searched: 5148868 seqs, 313196961 residues

Total number of hits satisfying chosen parameters: 10002998

Minimum DB seq length: 0

Maximum DB seq length: 150

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

Pending Patents_NA_New:*

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9: /cggn_6/ptodata/2/pna/US10-NEW_COMBO_seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
C 1	21.8	22.9	78	US-10-932-182A-166715
C 2	18.8	19.8	77	US-10-605-923-15457
C 3	18.4	19.4	117	US-10-932-182A-174531
C 4	18.2	19.2	103	US-10-605-923-10887
C 5	18.2	19.2	103	US-10-605-924-7522
C 6	18.9	19.5	9	US-10-043-312-11
C 7	18	18.9	117	US-10-707-003-1264
C 8	18	18.9	117	US-10-604-984-1264
C 9	17.8	18.7	100	US-10-153-462A-3
C 10	17.6	18.5	96	US-10-932-182A-173417
C 11	17.6	18.5	104	US-10-605-923-13759
C 12	17.6	18.5	104	US-10-605-924-65132
C 13	17.6	18.5	112	US-11-021-016-12
C 14	17.4	18.3	66	US-10-605-923-17798
C 15	17.4	18.3	66	US-10-605-923-12307
C 16	17.4	18.3	96	US-10-604-945-1471
C 17	17.4	18.3	96	US-10-604-942-65132
C 18	17.4	18.3	147	US-10-932-182A-78301
C 19	17.2	18.1	25	US-11-036-17-439867
C 20	17.2	18.1	60	US-10-708-952A-39923
C 21	17.2	18.1	65	US-10-604-945-3007
C 22	17.2	18.1	65	US-10-604-942-36290
C 23	17.2	18.1	73	US-10-708-952A-388244
C 24	17.2	18.1	7	US-10-604-985-809

ALIGNMENTS

RESULT 1
US-10-932-182A-166715/c
; Sequence 166715, Application US/10932182A

; GENERAL INFORMATION:
; APPLICANT: NAKAO, YOSHIHIRO
; APPLICANT: NAKAMURA, NORIHIRO
; APPLICANT: KODAMA, YUKIKO
; APPLICANT: FUJIMURA, TOMOKO
; APPLICANT: ASHIKARI, TOSHIHIRO
; TITLE OF INVENTION: METHODS FOR ANALYZING GENES OF INDUSTRIAL YEASTS
; FILE REFERENCE: 010685-043
; CURRENT APPLICATION NUMBER: US/10/932-182A
; CURRENT FILING DATE: 2004-09-02
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 166715
; LENGTH: 78
; TYPE: DNA
; ORGANISM: *Saccharomyces pastorianus*

US-10-932-182A-166715

Query Match 22.9%; Score 21.8; DB 6; length 78;
Best Local Similarity 43.8%; pred. No. 38;
Matches 32; Conservative 9; Mismatches 32; Indels 0; Gaps 0;

QY

8 G T G U C C U Q A G U G U A G G G T A U C A C G T G G C T T A A C C G G A A A G G G C C C G C T C A A A 67

Db

73 G C T T C A G T A G C T C A G T C T G C A G G C G C T C A G T C T C A T A T C T G A G G T G A G T C G A A C 14

QY

68 C C G G G G G A A C A 80

Db

13 C T C C C T C G G A C A 1

RESULT 2
US-10-605-923-15457/c
; Sequence 15457, Application US/10605923

; GENERAL INFORMATION:
; APPLICANT: ROBETTA GENOMICS LTD
; TITLE OF INVENTION: BIOINFORMATICALLY DETECTABLE GROUP OF NOVEL REGULATORY GENES AN
; TITLE OF INVENTION: BIOINFORMATICALLY DETECTABLE GROUP OF NOVEL REGULATORY GENES AN
; FILE REFERENCE: 55000
; CURRENT APPLICATION NUMBER: US/10/605-923
; CURRENT FILING DATE: 2003-11-06
; NUMBER OF SEQ ID NOS: 1515658
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 15457

```

; LENGTH: 77
; TYPE: DNA
; ORGANISM: Homo Sapiens
; US-10-605-923-15457

Query Match          19.8%; Score 18.8; DB 7; Length 77;
Best Local Similarity 45.7%; Pred. No. 5.1e-02; Mismatches 8; Indels 0; Gaps 0;
Matches 21; Conservative 8; Mismatches 17; Indels 0; Gaps 0;
Oy          16 AGUCUAGUGUACUACGGCUCUACAGCGGAAAGGUCCCGU 61
Db          47 AGCTTGCCATTATCACCTTGCCCTAGAGGCCAAGTCCTATG 2

RESULT 3
US-10-932-182A-174531
; Sequence 174531; Application US/10932182A
; GENERAL INFORMATION:
; APPLICANT: NAKAO, YOSHIHIRO
; APPLICANT: NAKAMURA, NORIHIRO
; APPLICANT: KODAMA, YUKIKO
; APPLICANT: FUJIMURA, TOMOKO
; APPLICANT: ASHIKARI, YOSHIHIRO
; TITLE OF INVENTION: METHODS FOR ANALYZING GENES OF INDUSTRIAL YEASTS
; FILE REFERENCE: 030685-033
; CURRENT APPLICATION NUMBER: US/10/932,182A
; CURRENT FILING DATE: 2004-09-02
; NUMBER OF SEQ ID NOS: 19023
; SEQ ID NO 174531
; LENGTH: 117
; TYPE: DNA
; ORGANISM: Saccharomyces pastorianus
; US-10-932-182A-174531

Query Match          19.4%; Score 18.4; DB 6; Length 117;
Best Local Similarity 56.8%; Pred. No. 7.8e-02; Mismatches 3; Indels 16; Gaps 0;
Matches 25; Conservative 3; Mismatches 16; Indels 16; Gaps 0;
Oy          30 CACCUUCGCCUAACAGCGCGAAAGGUCCCGAGUCAAACCGGC 73
Db          54 CAGGTATGCAAGGCTGCGAGGAGCCCTGGTCAATCCAGC 97

RESULT 4
US-10-605-923-10887
; Sequence 10887; Application US/10605923
; GENERAL INFORMATION:
; APPLICANT: ROSETTA GENOMICS LTD
; TITLE OF INVENTION: BIOMINFORMATICALLY DETECTABLE GROUP OF NOVEL REGULATORY GENES AND
; FILE REFERENCE: 55000
; CURRENT APPLICATION NUMBER: US/10/605, 923
; CURRENT FILING DATE: 2003-11-06
; NUMBER OF SEQ ID NOS: 1515668
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 10887
; LENGTH: 103
; TYPE: DNA
; ORGANISM: Homo Sapiens
; US-10-605-923-10887

Query Match          19.2%; Score 18.2; DB 7; Length 103;
Best Local Similarity 44.7%; Pred. No. 9e+02; Mismatches 8; Indels 0; Gaps 0;
Matches 21; Conservative 8; Mismatches 18; Indels 0; Gaps 0;
Oy          6 GUUCUCGUAGUGUACGGUACUACGGCUCUACAGCGGAAAGU 54
Db          21 GATTCTGGACTGAAATGGTATGCGTAAAGGCCATAGT 67

RESULT 5
US-11-043-312-11
; Sequence 312-11; Application US/11043312
; GENERAL INFORMATION:
; APPLICANT: COLOSI, PETER C.
; TITLE OF INVENTION: ACCESSORY FUNCTIONS FOR USE IN
; NUMBER OF SEQUENCES: 17
; RECOMBINANT AAV VIRION PRODUCTION
; CORRESPONDENCE ADDRESS:
; ADDRESS: REED & ROBINS LLP
; STREET: 285 HAMILTON AVENUE
; CITY: PALO ALTO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 94301

RESULT 6
US-11-043-312-11
; Sequence 11; Application US/11043312
; GENERAL INFORMATION:
; APPLICANT: COLOSI, PETER C.
; TITLE OF INVENTION: ACCESSORY FUNCTIONS FOR USE IN
; NUMBER OF SEQUENCES: 17
; RECOMBINANT AAV VIRION PRODUCTION
; CORRESPONDENCE ADDRESS:
; ADDRESS: REED & ROBINS LLP
; STREET: 285 HAMILTON AVENUE
; CITY: PALO ALTO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 94301

; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; COMPUTER: IBM PC Compatible
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/11/043, 312
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/11/043, 312
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: US/10/177, 871
; FILING DATE: 19-JUN-2002
; APPLICATION NUMBER: US/08/745, 957
; FILING DATE: 07-NOV-1996
; APPLICATION NUMBER: US 60/006, 402
; FILING DATE: 09-NOV-1995
; ATTORNEY/AGENT INFORMATION:
; ATTORNEY: McCracken, Thomas P.
; REGISTRATION NUMBER: 38,548
; TELEFAX: (415) 327-3231
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 95 base pairs
; TYPE: nucleic acid
; STRANDBEADNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; SEQUENCE DESCRIPTION: SEQ ID NO: 11:
; US-11-043-312-11

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; TITLE OF INVENTION: USES THEREOF
; FILE REFERENCE: 55004
; CURRENT APPLICATION NUMBER: US7/0/605, 924
; CURRENT FILING DATE: 2003-11-05
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO: 12307
; LENGTH: 66
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-605-924-12307

Query Match 18.3%; Score 17.4; DB 7; Length 66;
Best Local Similarity 47.5%; Pred. No. 1.6e+03;
Matches 28; Conservative 5; Mismatches 26; Indels 0; Gaps 0;
Qy 12 CCGUAGUGAGUGGUUAUCAGGUCCUAACAGGGAAGGUCCCGGUUCGAAACCG 70
Db 65 CTGACCTGGAAACCATCATCACCGAACCGAGGGGGAGGCTGGTGATGTGGACCG 7

Search completed: February 18, 2005, 23:20:04
Job time : 256 SECs

GenCore version 5.1.6
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On nucleic - nucleic search, using sw model

Run on: February 18, 2005, 21:00:02 ; Search time 1819 Seconds
 (without alignments)
 1987.963 Million cell updates/sec

Title: US-10-820-820-4

Perfect score: 95

Sequence: 1 accguuuguuuucguagu...aaacaaagacagucuuu 95

Scoring table: IDENTITY_NUC

Gapop 10-0 , Gapext 1.0

Searched: 34239544 seqs, 19012134700 residues

Total number of hits satisfying chosen parameters: 2048674

Minimum DB seq length: 0

Maximum DB seq length: 150

Post-processing: Minimum Match 0%
 Maximum Match 100%
 Listing first 45 summaries

Database : EST:*

1: gb_elt1:*

2: gb_elt2:*

3: gb_hcc:*

4: gb_elt3:*

5: gb_elt4:*

6: gb_elt5:*

7: gb_elt6:*

8: gb_gb81:*

9: gb_gb82:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

ALIGNMENTS

RESULT 1
 BR031637
 LOCUS
 mRNA
 DEFINITION mRNA sequence.
 BR031637
 ACCESSION BR031637.1
 VERSION GI:10739349
 KEYWORDS EST:
 SOURCE
 ORGANISM Homo sapiens (human)
 Homo sapiens
 Eukarya; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 1 (bases 1 to 57)
 REFERENCE
 AUTHORS NIM-MGC
 TITLE NIH-MGC http://mgc.ncbi.nih.gov/
 JOURNAL National Institutes of Health, Mammalian Gene Collection (MGC)
 COMMENT Unpublished (1999)
 Tissue Procurement: ATCC
 CDNA Library Preparation: CLONETECH Laboratories, Inc.
 CDNA Library Arrayed by: The I.M.A.G.E. Consortium (L1NL)
 DNA Sequencing by: Incyte Genomics, Inc.
 Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/L1NL at: <http://image1nl.nih.gov>
 Plate: L1CM497 row: 1 column: 05
 High quality sequence stop: 57.

FEATURES
 SOURCE
 1. -57
 /location/Qualifiers
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:906"
 /clones="IMAGE:3827860"
 /tissue_type="hypertrophiforma"
 /lab_host="DH10^T phage-resistant"
 /clone_lib="NIH MGC_58"
 /note="Organ: Kidney; Vector: pDNA-LIB (Clontech); Site_1: SfiI (ggccgcctggcc); Site_2: SfiI (ggccatccggcc);
 Double-stranded CDNA was prepared from cell line RNA. 5'
 and 3' adaptors were used in cloning as follows: 5' adaptor sequence: 5'-CAGGGCTATGGCC-3', and 3' adaptor sequence: 5'-TTCTGAGCCGGCCGACCTG-4T(30)BN-3', (where B = A, C, or G and N = A, C, G, or T). Average insert size 1.35 kb (range 0.9-4.0 kb). 1515 colonies contained inserts by PCR. This library was enriched for full-length clones and was constructed by Clontech Laboratories (Palo Alto, CA)."
 AL758558 Arabidopsis
 BX148475 Danio rer
 AL758558 Arabidopsis
 BX148475 Danio rer

RESULT 1
 BR031637
 LOCUS
 mRNA
 DEFINITION mRNA sequence.
 BR031637
 ACCESSION BR031637.1
 VERSION GI:10739349
 KEYWORDS EST:
 SOURCE
 ORGANISM Homo sapiens (human)
 Homo sapiens
 Eukarya; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 1 (bases 1 to 57)
 REFERENCE
 AUTHORS NIM-MGC http://mgc.ncbi.nih.gov/
 TITLE NIH-MGC
 JOURNAL National Institutes of Health, Mammalian Gene Collection (MGC)
 COMMENT Unpublished (1999)
 Tissue Procurement: ATCC
 CDNA Library Preparation: CLONETECH Laboratories, Inc.
 CDNA Library Arrayed by: The I.M.A.G.E. Consortium (L1NL)
 DNA Sequencing by: Incyte Genomics, Inc.
 Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/L1NL at: <http://image1nl.nih.gov>
 Plate: L1CM497 row: 1 column: 05
 High quality sequence stop: 57.

FEATURES
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 1. -57
 /location/Qualifiers
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:906"
 /clones="IMAGE:3827860"
 /tissue_type="hypertrophiforma"
 /lab_host="DH10^T phage-resistant"
 /clone_lib="NIH MGC_58"
 /note="Organ: Kidney; Vector: pDNA-LIB (Clontech); Site_1: SfiI (ggccgcctggcc); Site_2: SfiI (ggccatccggcc);
 Double-stranded CDNA was prepared from cell line RNA. 5'
 and 3' adaptors were used in cloning as follows: 5' adaptor sequence: 5'-CAGGGCTATGGCC-3', and 3' adaptor sequence: 5'-TTCTGAGCCGGCCGACCTG-4T(30)BN-3', (where B = A, C, or G and N = A, C, G, or T). Average insert size 1.35 kb (range 0.9-4.0 kb). 1515 colonies contained inserts by PCR. This library was enriched for full-length clones and was constructed by Clontech Laboratories (Palo Alto, CA)."
 AL758558 Arabidopsis
 BX148475 Danio rer
 AL758558 Arabidopsis
 BX148475 Danio rer

ORIGIN

Query Match 42.5%; Score 40.4; DB 2; Length 57;
Best Local Similarity 66.0%; Pred. No. 0.0026;
Matches 33; Conservative 11; Mismatches 6; Indels 0; Gaps 0;

QY 18 USUAGUGGUUAUCAGGUCCUAACGGGAAGGUCCCCGGUUCGAA 67
DEFINITION Cr_Emb_08F08_TEXP1 Convoluta roscoffensis embryos from Eva Jimenez
Bx275850 sequence.

ACCESSION BU275850
VERSION BU275850.1
KEYWORDS SYmsagittifera roscoffensis
ORGANISM Symsagittifera roscoffensis
Bukaryota; Metazoa; Plathelminthes; Turbellaria; Acoelomorpha;
Acoela; Sagittiferidae; Symsagittifera.
REFERENCE 1 (bases 1 to 150)
AUTHORS Blaxter,M.L., Jiminez,E., Aboobaker,A. and Salo,E.
TITLE A survey of genes expressed in the acoel flatworm Convoluta
roscoffensis
COMMENT Unpublished (2002)
JOURNAL Contact: Blaxter ML
Institute of Cell, Animal and Population Biology
University of Edinburgh
Ashworth Labs, King's Buildings, West Mains Road, Edinburgh, EH9
3JT, UK.
Tel: +44 131 650 6760
Fax: +44 131 670 5450
Email: mark.blaxter@ed.ac.uk
The library was prepared by Eva Jimenez, University of Barcelona, Spain. The sequencing was performed by Eva Jimenez, Aziz Aboobaker, Edinburgh, UK. The sequence contained a PolyA tail (trimmed)
PCR PRIMERS FORWARD: T7P1L
BACKWARD: triple 5 ExBeg
Plate: 08 row: F column: 08
Seq primer: TEXP1
High quality sequence stop: 150.
FEATURES Source
1. 150 Location/Qualifiers
1. /organism="Symsagittifera roscoffensis"
/mol_type="mRNA"
/db_xref="raxon_84072"
/clone="Cr_Emb_08F08"
/sex="mixed"
/dev_stage="embryo"
/clone_lib="Convoluta roscoffensis embryos from Eva
Jimenez"
/notes="Vector: lambda triplex; Site 1: SCDRI; Site_2:
HindIII; The library was prepared by Eva Jimenez,
University of Barcelona, Spain. The sequencing was
performed by Eva Jimenez, Aziz Aboobaker and Ailie Rosie,
Edinburgh Phylogenomics Programme, ICAPB, Edinburgh, UK."
ORIGIN

ORIGIN

Query Match 31.8%; Score 30.2; DB 9; Length 71;
Best Local Similarity 49.3%; Pred. No. 1.9; Mismatches 23; Indels 0; Gaps 0;

QY 9 UUUCGGUGUGUGUGUUAUCAGUGGCCAACGGGAAGGUCCCCGGUUCGAA 68
DEFINITION CB495943_1 Oncorhynchus mykiss CDNA, mRNA sequence.
ACCESSION CB495943
VERSION CB495943.1
KEYWORDS EST.
ORGANISM Oncorhynchus mykiss (rainbow trout)
Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Actinopterygii; Neopterygii; Teleostei; Euteleostei;
Protacanthopterygii; Salmoniformes; Salmonidae; Oncorhynchus.
REFERENCE 1 (bases 1 to 135)
AUTHORS GRASP Consortium, Davidson,W.S., Koop,B.P. and
http://web.uvic.ca/cbr/grasp.
TITLE A survey of *Salmo salar* transcripts from high complexity cDNA
libraries
COMMENT Unpublished (2002)
JOURNAL Contact: Koop BP
Centre for Biomedical Research
PO Box 3020 SNN CSC, Victoria BC, V8W 3N5, Canada
Tel: 250 472 4067

outcomes ("Col-0") notes. PCR was performed on DNA from *Arabidopsis thaliana* plants (T1) which were transformed with the T-DNA from vector PKC16 (GenBank accession number: AJ537514). The lines contain one or more T-DNA insertions. The DNA fragment(s) resulting from the PCR were directly sequenced to determine the genomic sequence flanking the insertion. T-DNA derived sequences were removed.¹⁴

ORGANISM: naumovia, castellii, Fungi: Ascomycota; Saccharomycotina; Saccharomycetes; Saccharomyctales; Saccharomycetaceae; Naumovia.
 REFERENCE: 1 (base 1 to 136)
 AUTHORS: Cliften, P.F., Hillier, L.W., Fulton, L., Graves, T., Miner, T., Gish, W.R., Waterston, R.H. and Johnston, M.
 TITLE: Surveying *Saccharomyces* genomes to identify functional elements by comparative DNA sequence analysis

```

Query Match 30.7%; Score 29.2; DB 9; Length 147;
Best Local Similarity 53.4%; Pred. No. 5.2;
Matched 31; Mismatches 9; Indels 0; Gaps 0;
Oy 23 UGGTAAUCAGGUCCUAACAGCGAAAGGUCCCGGUUAGAACGGGCGGAACCA 80
Db 94 TGGTTAGAGCGCTTGCTTATGAGCGGAAGGGTGCCTGCGCCCGGAGCA 37

```

Department of Genetics
Washington University Medical School
Box 8232, 4566 Scott Ave., St. Louis, MO 63110, USA
Tel: 314 362 2735
Fax: 314 362 7855
Email: mjl@genetics.wustl.edu
Class: random plasmid subclone.
Location/Qualifiers
FEATURES

LOCUS DR36G28 124 bp DNA linear GSS 22-NOV-2002
DEFINITION Danio rerio genomic clone DR36G28, genomic survey sequence.
ACCESSION AL98516
VERSION AL98516.1 GI:5180237
KEYWORDS GSS
SOURCE Danio rerio (zebrafish)
ORGANISM Danio rerio
BILOGICAL_ASSEMBLY Materna. Chordata. Craniata. Vertebrata. Bilateria.

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/strain="NRRL Y-12630" (CBS 4309)
/db_xref="taxon:27288"
/clone="476_dit22fil.81"
/clone lib="Saccharomyces castellii" NRRL Y-12630"
/note="Random genomic sequence"

```

REFERENCE
1 (base 1 to 124)
AUTHORS
Humphray, S.J., Huckle, E. and Hunt, S.E.
TITLE
Direct Submission
SUBMITTED (14-NOV-2002) The Sanger Institute, Wellcome Trust Genome
Campus, Hinxton, Cambridgeshire, CB10 1SA, UK. E-mail contact:
humquerry@sanger.ac.uk Unpublished
COMMENT
This sequence was generated from the Sanger end of BAC 36G2. 36G2 is

	Matches	28;	Conservative	4;	Mismatches	9;	Indels	0;	Gaps	0;
QY	40	UAACGCGAAAGAUCCCCGUUAGAACCGGGCGAAAC				80				
DB	135	TAACGCGAGAACGCCCCAGTTCCGATCCGGGAAATCA				95				

ACCESSION B239589
 VERSION B239589.1
 KEYWORD GSS
 SOURCE Entamoeba invadens
 ORGANISM Entamoeba invadens
 BUKARYOTA; Entamoebidae; Entamoeba.
 BILANISTR B1.10.12-KB Entamoeba invadens genomic clone BILANISTR

TITLE Gene discovery in the Entamoeba invadens genome
JOURNAL Mol. Biochem. Parasitol. 129 (1), 23-31 (2003)
MEDLINE 2268048
PUBMED 12798503
COMMENT Other GSs: BINAN5STR
Contact: Brendan Loftus
Department of Eukaryotic Genomics

DEFINITION A2927512 135 bp DNA linear GSS 01-APR-2001
 476.dit25f11.s1 *Saccharomyces castellii* NRRL Y-2630 Naumovia
ACCESSION A2927512 castellii genomic clone 476.dit25f11.s1, genomic burvey sequence.
VERSION A2927512.1 GI:13498416
KEYWORDS GSS.
SOURCE Naumovia castellii
LOCUS A2927512

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  FEATURES          CLASS: Feature
  source          location: node
  location: qualifiers
  location: qualifiers
  1. 137
  /organism="Entamoeba 1"
  /mol_type="genomic DNA"
  /strain="P-1"
  /db_xref="Taxon:33085"
  /clone="ENAN55"

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ORGANISM		Danio rerio
/clone lib="EI_10-12_KB" notes="Vector: pRS2; Site 1: BstXI; Total genomic DNA was isolated from early log phase trophozoites of <i>B. invadens</i> IP-1 using a Qiagen Plant DNA extraction kit. A shotgun medium-size plasmid library (average insert size of 10 - 12 kb) was generated by random mechanical shearing of <i>B. invadens</i> genomic DNA, repairing the ends of DNA fragments with T4 Polymerase, adding BstXI adaptors and ligating into the BstXI site of a pUC-derived vector pRS2."		
ORIGIN		
Query Match		
Qy	Best Local Similarity 27.8%; Score 26.4; DB 8; Length 137; Mismatches 30; Conservative 6; Indels 0; Gaps 0; Matched	
Db	29 UCACGUUCGCCUMACACGCCAAGGUCGCCGGGUUCGAGAACCGGGGAAACA 80 1 TCACATCAGTTTCTGAGCTGAGGTCGCCGTTAACCCGGGGGACCA 52	
RESULT 10		
LOCUS	BX166029	
DEFINITION	BX166029 genomic clone DKEY-124P18, genomic survey sequence.	
ACCESSION	BX166029	
VERSION	1	
KEYWORDS	GSS	
SOURCE	Danio rerio (zebrafish)	
ORGANISM	Danio rerio	
REFERENCE	1 (bases 1 to 144)	
AUTHORS	Humphray,S.J., Huckle,B. and Durham,J.L.	
TITLE	Direct Submission	
JOURNAL	Submitted (27-JAN-2003) The Sanger Institute, Wellcome Trust Genome Campus, Hinxton, Cambridgeshire, CB10 1SA, UK. E-mail enquiries: humphrey@sanger.ac.uk Unpublished	
COMMENT	Third sequence was generated from the T7 end of BAC 124P18. 124P18 is part of the Daniokey BAC Library created by R. Plasterk and N.V. Keygene. Further details: http://www.sanger.ac.uk/Projects/D_rerio/ .	
FEATURES	Location/Qualifiers	
SOURCE	1. .144 /organism="Danio rerio" /mol_type="genomic DNA" /db_xref="TAXON:7955" /clone="DKEY-124P18" /tissue_type="Testis" /note="Vector pindigBAC-536"	
ORIGIN		
Query Match		
Qy	Best Local Similarity 56.6%; Score 25.8; DB 9; Length 149; Mismatches 30; Conservative 6; Indels 0; Gaps 0; Matched	
Db	28 AUGACGUGCGCTAACACGGAAAGGUCCGCGTUGCGAACCGGGGAAACA 80 4 ATTCAGATCACCTCACATCACAGAGGCTGCTGGTCGTCGAGCCCTGCTGATCA 56	
RESULT 12		
LOCUS	H04713	
DEFINITION	H04713 e17-1.3.3-3' Lambda Zap Express 1 library of P. E. Schwartz (9/93)	
ACCESSION	H04713	
VERSION	1	
KEYWORDS	EST	
SOURCE	Rattus norvegicus (Norway rat)	
ORGANISM	Rattus norvegicus	
REFERENCE	1 (bases 1 to 126)	
AUTHORS	Schwartz,P.B., Grieshaber,N.A., Grieshaber,S.S. and Majack,R.A.	
TITLE	An expressed sequence tag from in vitro embryonic rat vascular smooth muscle cells	
JOURNAL	Unpublished (1995)	
COMMENT	Contact: Philip B. Schwartz Pediatrics and Cellular and Structural Biology University of Colorado Health Sciences Center 4200 East Ninth Avenue, Denver, Colorado, 80262, USA Tel: (303) 270-4569 Fax: (303) 270-8353 Email: schwartz.p@fci.colorado.edu.	
FEATURES	Location/Qualifiers	
SOURCE	1. .126 /organism="Rattus norvegicus" /mol_type="mRNA" /strain="Sprague-Dawley" /db_xref="TAXON:10116" /clone="e17-1.3.3" /clone lib="Lambda Zap Express library of P. E. Schwartz (9/93)" /note="developmental-stage=Embryonic Day 17 post-fertilization; tissue-type=Aorta; cell-type=Vascular smooth muscle cell; Sex=Male."	
RESULT 11		
LOCUS	DR21E13S	
DEFINITION	Danio rerio genomic clone DKEY-21E13, genomic survey sequence.	
ACCESSION	AL736659	
VERSION	1	
GSS	GI:21348575	
SOURCE	Danio rerio (zebrafish)	
ORIGIN		
Query Match		
Qy	149 bp linear GSS 27-NOV-2002	
Db	81 GTCGAGC 79 81 GTCGAGC 88	
RESULT 12		
LOCUS	DR21E13S	
DEFINITION	Danio rerio genomic clone DKEY-21E13, genomic survey sequence.	
ACCESSION	AL736659	
VERSION	1	
GSS	GI:21348575	
SOURCE	Danio rerio (zebrafish)	
ORIGIN		
Query Match		
Qy	149 bp linear GSS 27-NOV-2002	
Db	81 GTCGAGC 79 81 GTCGAGC 88	
RESULT 13		
LOCUS	DR21E13S	
DEFINITION	Danio rerio genomic clone DKEY-21E13, genomic survey sequence.	
ACCESSION	AL736659	
VERSION	1	
GSS	GI:21348575	
SOURCE	Danio rerio (zebrafish)	
ORIGIN		
Query Match		
Qy	149 bp linear GSS 27-NOV-2002	
Db	81 GTCGAGC 79 81 GTCGAGC 88	
RESULT 14		
LOCUS	DR21E13S	
DEFINITION	Danio rerio genomic clone DKEY-21E13, genomic survey sequence.	
ACCESSION	AL736659	
VERSION	1	
GSS	GI:21348575	
SOURCE	Danio rerio (zebrafish)	
ORIGIN		
Query Match		
Qy	149 bp linear GSS 27-NOV-2002	
Db	81 GTCGAGC 79 81 GTCGAGC 88	
RESULT 15		
LOCUS	DR21E13S	
DEFINITION	Danio rerio genomic clone DKEY-21E13, genomic survey sequence.	
ACCESSION	AL736659	
VERSION	1	
GSS	GI:21348575	
SOURCE	Danio rerio (zebrafish)	
ORIGIN		
Query Match		
Qy	149 bp linear GSS 27-NOV-2002	
Db	81 GTCGAGC 79 81 GTCGAGC 88	
RESULT 16		
LOCUS	DR21E13S	
DEFINITION	Danio rerio genomic clone DKEY-21E13, genomic survey sequence.	
ACCESSION	AL736659	
VERSION	1	
GSS	GI:21348575	
SOURCE	Danio rerio (zebrafish)	
ORIGIN		
Query Match		
Qy	149 bp linear GSS 27-NOV-2002	
Db	81 GTCGAGC 79 81 GTCGAGC 88	
RESULT 17		
LOCUS	DR21E13S	
DEFINITION	Danio rerio genomic clone DKEY-21E13, genomic survey sequence.	
ACCESSION	AL736659	
VERSION	1	
GSS	GI:21348575	
SOURCE	Danio rerio (zebrafish)	
ORIGIN		
Query Match		
Qy	149 bp linear GSS 27-NOV-2002	
Db	81 GTCGAGC 79 81 GTCGAGC 88	
RESULT 18		
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DEFINITION	Danio rerio genomic clone DKEY-21E13, genomic survey sequence.	
ACCESSION	AL736659	
VERSION	1	
GSS	GI:21348575	
SOURCE	Danio rerio (zebrafish)	
ORIGIN		
Query Match		
Qy	149 bp linear GSS 27-NOV-2002	
Db	81 GTCGAGC 79 81 GTCGAGC 88	
RESULT 19		
LOCUS	DR21E13S	
DEFINITION	Danio rerio genomic clone DKEY-21E13, genomic survey sequence.	
ACCESSION	AL736659	
VERSION	1	
GSS	GI:21348575	
SOURCE	Danio rerio (zebrafish)	
ORIGIN		
Query Match		
Qy	149 bp linear GSS 27-NOV-2002	
Db	81 GTCGAGC 79 81 GTCGAGC 88	
RESULT 20		
LOCUS	DR21E13S	
DEFINITION	Danio rerio genomic clone DKEY-21E13, genomic survey sequence.	
ACCESSION	AL736659	
VERSION	1	
GSS	GI:21348575	
SOURCE	Danio rerio (zebrafish)	
ORIGIN		
Query Match		
Qy	149 bp linear GSS 27-NOV-2002	
Db	81 GTCGAGC 79 81 GTCGAGC 88	
RESULT 21		
LOCUS	DR21E13S	
DEFINITION	Danio rerio genomic clone DKEY-21E13, genomic survey sequence.	
ACCESSION	AL736659	
VERSION	1	
GSS	GI:21348575	
SOURCE	Danio rerio (zebrafish)	
ORIGIN		
Query Match		
Qy	149 bp linear GSS 27-NOV-2002	
Db	81 GTCGAGC 79 81 GTCGAGC 88	
RESULT 22		
LOCUS	DR21E13S	
DEFINITION	Danio rerio genomic clone DKEY-21E13, genomic survey sequence.	
ACCESSION	AL736659	
VERSION	1	
GSS	GI:21348575	
SOURCE	Danio rerio (zebrafish)	
ORIGIN		
Query Match		
Qy	149 bp linear GSS 27-NOV-2002	
Db	81 GTCGAGC 79 81 GTCGAGC 88	
RESULT 23		
LOCUS	DR21E13S	
DEFINITION	Danio rerio genomic clone DKEY-21E13, genomic survey sequence.	
ACCESSION	AL736659	
VERSION	1	
GSS	GI:21348575	
SOURCE	Danio rerio (zebrafish)	
ORIGIN		
Query Match		
Qy	149 bp linear GSS 27-NOV-2002	
Db	81 GTCGAGC 79 81 GTCGAGC 88	
RESULT 24		
LOCUS	DR21E13S	
DEFINITION	Danio rerio genomic clone DKEY-21E13, genomic survey sequence.	
ACCESSION	AL736659	
VERSION	1	
GSS	GI:21348575	
SOURCE	Danio rerio (zebrafish)	
ORIGIN		
Query Match		
Qy	149 bp linear GSS 27-NOV-2002	
Db	81 GTCGAGC 79 81 GTCGAGC 88	
RESULT 25		
LOCUS	DR21E13S	
DEFINITION	Danio rerio genomic clone DKEY-21E13, genomic survey sequence.	
ACCESSION	AL736659	
VERSION	1	
GSS	GI:21348575	
SOURCE	Danio rerio (zebrafish)	
ORIGIN		
Query Match		
Qy	149 bp linear GSS 27-NOV-2002	
Db	81 GTCGAGC 79 81 GTCGAGC 88	
RESULT 26		
LOCUS	DR21E13S	
DEFINITION	Danio rerio genomic clone DKEY-21E13, genomic survey sequence.	
ACCESSION	AL736659	
VERSION	1	
GSS	GI:21348575	
SOURCE	Danio rerio (zebrafish)	
ORIGIN		
Query Match		
Qy	149 bp linear GSS 27-NOV-2002	
Db	81 GTCGAGC 79 81 GTCGAGC 88	
RESULT 27		
LOCUS	DR21E13S	
DEFINITION	Danio rerio genomic clone DKEY-21E13, genomic survey sequence.	
ACCESSION	AL736659	
VERSION	1	
GSS	GI:21348575	
SOURCE	Danio rerio (zebrafish)	
ORIGIN		
Query Match		
Qy	149 bp linear GSS 27-NOV-2002	
Db	81 GTCGAGC 79 81 GTCGAGC 88	
RESULT 28		
LOCUS	DR21E13S	
DEFINITION	Danio rerio genomic clone DKEY-21E13, genomic survey sequence.	
ACCESSION	AL736659	
VERSION	1	
GSS	GI:21348575	
SOURCE	Danio rerio (zebrafish)	
ORIGIN		
Query Match		
Qy	149 bp linear GSS 27-NOV-2002	
Db	81 GTCGAGC 79 81 GTCGAGC 88	
RESULT 29		
LOCUS	DR21E13S	
DEFINITION	Danio rerio genomic clone DKEY-21E13, genomic survey sequence.	
ACCESSION	AL736659	
VERSION	1	
GSS	GI:21348575	
SOURCE	Danio rerio (zebrafish)	
ORIGIN		
Query Match		
Qy	149 bp linear GSS 27-NOV-2002	
Db	81 GTCGAGC 79 81 GTCGAGC 88	
RESULT 30		
LOCUS	DR21E13S	
DEFINITION	Danio rerio genomic clone DKEY-21E13, genomic survey sequence.	
ACCESSION	AL736659	
VERSION	1	
GSS	GI:21348575	
SOURCE	Danio rerio (zebrafish)	
ORIGIN		
Query Match		
Qy	149 bp linear GSS 27-NOV-2002	
Db	81 GTCGAGC 79 81 GTCGAGC 88	
RESULT 31		
LOCUS	DR21E13S	
DEFINITION	Danio rerio genomic clone DKEY-21E13, genomic survey sequence.	
ACCESSION	AL736659	
VERSION	1	
GSS	GI:21348575	
SOURCE	Danio rerio (zebrafish)	
ORIGIN		
Query Match		
Qy	149 bp linear GSS 27-NOV-2002	
Db	81 GTCGAGC 79 81 GTCGAGC 88	
RESULT 32		
LOCUS	DR21E13S	
DEFINITION	Danio rerio genomic clone DKEY-21E13, genomic survey sequence.	
ACCESSION	AL736659	
VERSION	1	
GSS	GI:21348575	
SOURCE	Danio rerio (zebrafish)	
ORIGIN		
Query Match		
Qy	149 bp linear GSS 27-NOV-2002	
Db	81 GTCGAGC 79 81 GTCGAGC 88	
RESULT 33		
LOCUS	DR21E13S	
DEFINITION	Danio rerio genomic clone DKEY-21E13, genomic survey sequence.	
ACCESSION	AL736659	
VERSION	1	
GSS	GI:21348575	
SOURCE	Danio rerio (zebrafish)	
ORIGIN		
Query Match		
Qy	149 bp linear GSS 27-NOV-2002	
Db	81 GTCGAGC 79 81 GTCGAGC 88	
RESULT 34		
LOCUS	DR21E13S	
DEFINITION	Danio rerio genomic clone DKEY-21E13, genomic survey sequence.	
ACCESSION	AL736659	
VERSION	1	
GSS	GI:21348575	
SOURCE	Danio rerio (zebrafish)	
ORIGIN		
Query Match		
Qy	149 bp linear GSS 27-NOV-2002	
Db	81 GTCGAGC 79 81 GTCGAGC 88	
RESULT 35		
LOCUS	DR21E13S	
DEFINITION	Danio rerio genomic clone DKEY-21E13, genomic survey sequence.	
ACCESSION	AL736659	
VERSION	1	
GSS	GI:21348575	
SOURCE	Danio rerio (zebrafish)	
ORIGIN		
Query Match		
Qy	149 bp linear GSS 27-NOV-2002	
Db	81 GTCGAGC 79 81 GTCGAGC 88	
RESULT 36		
LOCUS	DR21E13S	
DEFINITION	Danio rerio genomic clone DKEY-21E13, genomic survey sequence.	
ACCESSION	AL736659	
VERSION	1	
GSS	GI:21348575	
SOURCE	Danio rerio (zebrafish)	
ORIGIN		
Query Match		
Qy	149 bp linear GSS 27-NOV-2002	
Db	81 GTCGAGC 79 81 GTCGAGC 88	
RESULT 37		
LOCUS	DR21E13S	
DEFINITION	Danio rerio genomic clone DKEY-21E13, genomic survey sequence.	
ACCESSION	AL736659	
VERSION	1	
GSS	GI:21348575	
SOURCE	Danio rerio (zebrafish)	
ORIGIN		
Query Match		
Qy	149 bp linear GSS 27-NOV-2002	
Db	81 GTCGAGC 79 81 GTCGAGC 88	
RESULT 38		
LOCUS	DR21E13S	
DEFINITION	Danio rerio genomic clone DKEY-21E13, genomic survey sequence.	
ACCESSION	AL736659	
VERSION	1	
GSS	GI:21348575	
SOURCE	Danio rerio (zebrafish)	
ORIGIN		
Query Match		
Qy	149 bp linear GSS 27-NOV-2002	
Db	81 GTCGAGC 79 81 GTCGAGC 88	
RESULT 39		
LOCUS	DR21E13S	
DEFINITION	Danio rerio genomic clone DKEY-21E13, genomic survey sequence.	
ACCESSION	AL736659	
VERSION	1	
GSS	GI:21348575	
SOURCE	Danio rerio (zebrafish)	
ORIGIN		
Query Match		
Qy	149 bp linear GSS 27-NOV-2002	
Db	81 GTCGAGC 79 81 GTCGAGC 88	
RESULT 40		
LOCUS	DR21E13S	
DEFINITION	Danio rerio genomic clone DKEY-21E13, genomic survey sequence.	
ACCESSION	AL736659	
VERSION	1	
GSS	GI:21348575	
SOURCE	Danio rerio (zebrafish)	
ORIGIN		
Query Match		
Qy	149 bp linear GSS 27-NOV-2002	
Db	81 GTCGAGC 79 81 GTCGAGC 88	
RESULT 41		
LOCUS	DR21E13S	
DEFINITION	Danio rerio genomic clone DKEY-21E13, genomic survey sequence.	
ACCESSION	AL736659	
VERSION	1	
GSS	GI:21348575	
SOURCE	Danio rerio (zebrafish)	
ORIGIN		
Query Match		
Qy	149 bp linear GSS 27-NOV-2002	
Db	81 GTCGAGC 79 81 GTCGAGC 88	
RESULT 42		
LOCUS	DR21E13S	
DEFINITION	Danio rerio genomic clone DKEY-21E13, genomic survey sequence.	
ACCESSION	AL736659	
VERSION	1	
GSS	GI:21348575	
SOURCE	Danio rerio (zebrafish)	
ORIGIN		
Query Match		
Qy	149 bp linear GSS 27-NOV-2002	
Db	81 GTCGAGC 79 81 GTCGAGC 88	
RESULT 43		
LOCUS	DR21E13S	
DEFINITION	Danio rerio genomic clone DKEY-21E13, genomic survey sequence.	
ACCESSION	AL736659	
VERSION	1	
GSS	GI:21348575	
SOURCE	Danio rerio (zebrafish)	
ORIGIN		
Query Match		
Qy	149 bp linear GSS 27-NOV-2002	
Db	81 GTCGAGC 79 81 GTCGAGC 88	
RESULT 44		
LOCUS	DR21E13S	
DEFINITION	Danio rerio genomic clone DKEY-21E13, genomic survey sequence.	
ACCESSION	AL736659	
VERSION	1	
GSS	GI:21348575	
SOURCE	Danio rerio (zebrafish)	
ORIGIN		
Query Match		
Qy	149 bp linear GSS 27-NOV-2002	
Db	81 GTCGAGC 79 81 GTCGAGC 88	
RESULT 45		
LOCUS	DR21	

Qy	15	UACUGUACUGGUUAUCAGGUCCCTAACACCGAAAGGUCCCGGUAGAAACCGGGCG 74	Db	86	AA	87
Db	51	TACTCTAGTGAGGCGCTTGCCTAGGAAGCAGGCCCTGGGTTGGATCCCAGCT 110	RESULT	14		
Qy	75	GAACAAAGACA 86	LOCUS	CD769207	112	bp
Db	111	CTGAAAAAGA 122	DEFINITION	AGENCOURT 14720166 NICHD_MM_Hyp1	Mus	musculus
SOURCE			ACCESSION	CD769207	EST	02-JUL-2003
ORGANISM			VERSION	CD769207.1	GI:	32427709
REFERENCE	CD768762	109 bp mRNA linear EST 02-JUL-2003	KEYWORDS			
LOCUS			SOURCE			
DEFINITION			ORGANISM			
ACCESSION			Mus			
VERSION	CD768762	AGENCOURT 14715419 NICHD_MM_Hyp1 Mus musculus cDNA clone	REFERENCE			
KEYWORDS		IMAGE:6975-075', mRNA sequence.	AUTHORS			
COMMENT		CD768762.1	TITLE			
ORGANISM		Unpublished (1999)	JOURNAL			
REFERENCE		Contact: Daniela S. Gerhard, Ph.D.	COMMENT			
LOCUS		Office of Cancer Genomics				
DEFINITION		National Cancer Institute / NIH				
ACCESSION		Bldg. 31 Rm10A07 Bethesda, MD 20892				
VERSION		Email: cgabbs@mail.nih.gov				
KEYWORDS						
COMMENT						
ORGANISM						
REFERENCE						
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REFERENCE						
LOCUS						
DEFINITION						
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VERSION						
KEYWORDS						
COMMENT						
ORGANISM						
REFERENCE						

Genomic survey sequence.

Job time : 1827 secs

ACCESSION

VERSION

ALJ37571.1 GI:21495919

GSS.

KEYWORDS

ORGANISM

Arabidopsis thaliana

Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;

Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;

rods; eurosids II; Brassicales; Brassicaceae; Arabidopsis.

REFERENCE

Li, Y., Rosso, M.G., Strizhov, N., Viehoever, P. and Weisshaar, B.

GABI-Kat SimpleSearch: a flanking sequence tag (FST) database for

the identification of T-DNA insertion mutants in *Arabidopsis* thaliana

JOURNAL

Bioinformatics 19 (11), 1441-1442 (2003)

MEDLINE

22155829

PUBMED

12874060

REFERENCE

AUTHORS

Rosso, M.G., Li, Y., Strizhov, N., Reiss, B., Dekker, K. and

Weisshaar, B.

An *Arabidopsis thaliana* T-DNA mutagenized population (GABI-Kat) for

flanking sequence tag-based reverse genetics

JOURNAL

Plant Mol. Biol. 53 (1-2), 247-259 (2003)

MEDLINE

23117147

PUBMED

14756321

REFERENCE

AUTHORS

Strizhov, N., Li, Y., Rosso, M.G., Viehoever, P., Dekker, K.A. and

Weisshaar, B.

High-throughput generation of sequence indexes from T-DNA

JOURNAL

Biotechniques 35 (6), 1164-1168 (2003)

PUBMED

14682050

REFERENCE

AUTHORS

Li, Y., Strizhov, N., Rosso, M.G. and Weisshaar, B.

TITLE

Submitted (31-MAR-2004) Weisshaar B., Max-Planck-Institut fuer

Zuechtungsforschung, Carl-von-Linne-Weg 10, Koeln, 50629, Germany

COMMENT

This sequence has been recovered from the left border of the T-DNA.

It indicates an insertion close to or within gene Atg50840.

Details on the protocols used for generation of the sequence are

described in References 1-3. The sequences are generated at the MPI

for Plant Breeding Research in the context of the GABI-Kat project.

GABI-Kat is part of the German Plant Genomics program designated

'GABI'. Information on line availability can be found at:

<http://www.mplz-koeln.mpg.de/GABI-Kat/>.

FEATURES

source

1. 37

/organism="Arabidopsis thaliana"

/mol_type="genomic DNA"

/strains="Columbia 0"

/db_xref="taxon:3702"

/clone=GR-150802-013073"

/clone_1bb="Arabidopsis thaliana T-DNA insertion linea"

/ecotype="Col-0"

/note="PCR was performed on DNA from *Arabidopsis thaliana* plants (T1) which were transformed with the T-DNA from vector pAC161 (GenBank accession number: AJ337514). The lines contain one or more T-DNA insertions. The DNA fragment(s) resulting from the PCR were directly sequenced to determine the genomic sequence flanking the insertion. T-DNA derived sequences were removed."

ORIGIN

Query Match Best Local Similarity 26.1%; Score 24.8; DB 9; Length 37;

Matches 24; Conservative 5; Mismatches 7; Indels 0; Gaps 0;

Qy 28 AUCACGUUCGCCAACAGCGAAAGGUCCCGAUC 63

Db 2 ATCACGTTGCTTACAGCGAAAGGCTCGGATC 37

Db 1 ACCGUUGGUUUCGGUAGUGUAGUGGUUAUCAGUCGCCUACACGGCAAAGGUCCCCG 60

Qy 61 UUCGAACCGGGGAAACAAAGCAGUCGCUU 95

Db 61 UUCGAACCGGGGAAACAAAGCAGUCGCUU 95

RESULT 2

US-10-820-820-4

Sequence 4, Application US/10820820

Publication No. US20040198689A1

GENERAL INFORMATION:

APPLICANT: TAIRA, KAZUNARI

APPLICANT: OHKAWA, JUN

APPLICANT: KOBEKI, SHIORI

TITLE OF INVENTION: EXPRESSION SYSTEMS FOR TRANSCRIPTION OF FUNCTIONAL TITLE OF INVENTION: NUCICIC ACIDS

FILE REFERENCE: 0453-0059-0000

CURRENT APPLICATION NUMBER: US/10/820,820

CURRENT FILING DATE: 2004-04-09

PRIOR APPLICATION NUMBER: US/09/763,590

PRIOR FILING DATE: 2001-02-06

PRIOR APPLICATION NUMBER: PCT/JP99/04718

PRIOR FILING DATE: 1999-08-31

PRIOR APPLICATION NUMBER: JP 10/244755

PRIOR FILING DATE: 1998-08-31

NUMBER OF SEQ ID NOS: 25

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 4

LENGTH: 95

TYPE: RNA

ORGANISM: Artificial Sequence

FEATURE: OTHER INFORMATION: Description of Artificial Sequence: Nucleotide Sequence

OTHER INFORMATION: Description of Artificial Sequence: Nucleotide Sequence

US-10-820-820-4

Query Match 100.0%; Score 95; DB 18; Length 95; Best Local Similarity 100.0%; Pred. No. 4.7e-26; Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ACCGUGGUUUCGGUAGUGUAGUGGUUAUCAGUCGCCUACACGGCAAAGGUCCCCG 60

Db 1 ACCGUGGUUUCGGUAGUGUAGUGGUUAUCAGUCGCCUACACGGCAAAGGUCCCCG 60

Qy 61 UUCGAACCGGGGAAACAAAGCAGUCGCUU 95

Db 61 UUCGAACCGGGGAAACAAAGCAGUCGCUU 95

RESULT 3

US-09-974-974-5

Sequence 5, Application US/09974974

Publication No. US20030013095A1

GENERAL INFORMATION:

APPLICANT: Kazunari TAIRA

APPLICANT: Masashi WARASHINA

APPLICANT: Tomoko WARASHINA

TITLE OF INVENTION: Nucleic acid enzymes acquiring an activity for cleaving a TITLE OF INVENTION: target RNA by recognizing another molecule

FILE REFERENCE:

CURRENT APPLICATION NUMBER: US/09/974,974

CURRENT FILING DATE: 2002-03-14

PRIOR APPLICATION NUMBER: JP 2000-313320

PRIOR FILING DATE: 2000-10-13

NUMBER OF SEQ ID NOS: 17

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 5

LENGTH: 88

TYPE: RNA

ORGANISM: Artificial Sequence

FEATURE: OTHER INFORMATION: Description of Artificial Sequence: tRNA_{val} promoter sequence

US-09-974-974-5

Query Match 78.7%; Score 74.8; DB 10; Length 88; Best Local Similarity 91.9%; Pred. No. 2.3e-18; Matches 79; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ACCGUGGUUUCGGUAGUGUAGUGGUUAUCAGUCGCCUACACGGCAAAGGUCCCCG 60

Db 1 ACCGUGGUUUCGGUAGUGUAGUGGUUAUCAGUCGCCUACACGGCAAAGGUCCCCG 60

Qy 61 UUCGAACCGGGGAAACAAAGCAGUCGCUU 86

Db 61 UUCGAACCGGGGAAACAAAGCAGUCGCUU 86

RESULT 4

US-10-475-851A-3

Sequence 3, Application US/10475851A

Publication No. US20040248114A1

GENERAL INFORMATION:

APPLICANT: TAIRA, Kazunari

APPLICANT: WARASHINA, Tomoko

APPLICANT: WARASHINA, Masaki

APPLICANT: KAWASAKI, Hiroaki

APPLICANT: HARA, Toshihumi

APPLICANT: NOZAWA, Iwao

TITLE OF INVENTION: Novel Maxizyme

FILE REFERENCE: P2426

CURRENT APPLICATION NUMBER: US/10/475,851A

CURRENT FILING DATE: 2003-10-31

PRIOR APPLICATION NUMBER: PCT/JP02/04322

PRIOR FILING DATE: 2002-04-30

NUMBER OF SEQ ID NOS: 8

SOFTWARE: PatentIn version 3.2

SEQ ID NO 3

LENGTH: 88

TYPE: RNA

ORGANISM: Homo sapiens

US-10-475-851A-3

Query Match 78.7%; Score 74.8; DB 10; Length 88; Best Local Similarity 91.9%; Pred. No. 2.3e-18; Matches 79; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ACCGUGGUUUCGGUAGUGUAGUGGUUAUCAGUCGCCUACACGGCAAAGGUCCCCG 60

Db 1 ACCGUGGUUUCGGUAGUGUAGUGGUUAUCAGUCGCCUACACGGCAAAGGUCCCCG 60

Qy 61 UUCGAACCGGGGAAACAAAGCAGUCGCUU 86

Db 61 UUCGAACCGGGGAAACAAAGCAGUCGCUU 86

RESULT 5

US-09-974-974-17

Sequence 17, Application US/09974974

Publication No. US20030013095A1

GENERAL INFORMATION:

APPLICANT: Kazunari TAIRA

APPLICANT: Masashi WARASHINA

APPLICANT: Tomoko WARASHINA

TITLE OF INVENTION: Nucleic acid enzymes acquiring an activity for cleaving a TITLE OF INVENTION: target RNA by recognizing another molecule

FILE REFERENCE:

CURRENT APPLICATION NUMBER: US/09/974,974

CURRENT FILING DATE: 2002-03-14

PRIOR APPLICATION NUMBER: JP 2000-313320

PRIOR FILING DATE: 2000-10-13

NUMBER OF SEQ ID NOS: 17

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 17

LENGTH: 138

TYPE: RNA

ORGANISM: Artificial Sequence

FEATURE: OTHER INFORMATION: Description of Artificial Sequence: tRNA_{val} promoter sequence


```

APPLICANT: TAIRA, KAZUNARI
APPLICANT: WARASHINA, MASAKI
APPLICANT: KUWABARA, TOMOKO
TITLE OF INVENTION: FUNCTIONAL CHIMERIC MOLECULES CAPABLE OF SLIDING
FILE REFERENCE: 0913560151
PRIORITY APPLICATION NUMBER: US/10/361,028
CURRENT FILING DATE: 2003-02-10
PRIORITY FILING DATE: 2000-11-03
PRIORITY APPLICATION NUMBER: JP 316133/1999
PRIORITY FILING DATE: 1998-11-05
NUMBER OF SEQ ID NOS: 56
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO: 51
LENGTH: 142
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: the nucleotide
US-10-361-028-51

Query Match 78.7%; Score 74.8; DB 16; Length 142;
Best Local Similarity 91.9%; Pred. No. 2.5e-18; Mismatches 0; Indels 0; Gaps 0;
Matches 79; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
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Db 1 ACCGUGUACGGGGGAGACAGAGA 60

Query Match 78.7%; Score 74.8; DB 16; Length 142;
Best Local Similarity 91.9%; Pred. No. 2.5e-18; Mismatches 0; Indels 0; Gaps 0;
Matches 79; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
Qy 61 UUCGAAACCGGGGACCAACCA 86
Db 61 UUCGAAACCGGGGACCAACCA 86

RESULT 10
US-10-361-028-53
Sequence 53, Application US/10361028
Publication No. US20030199471A1
GENERAL INFORMATION:
APPLICANT: TAIRA, KAZUNARI
APPLICANT: WARASHINA, MASAKI
APPLICANT: KUWABARA, TOMOKO
TITLE OF INVENTION: FUNCTIONAL CHIMERIC MOLECULES CAPABLE OF SLIDING
FILE REFERENCE: 0913560151
PRIORITY APPLICATION NUMBER: US/10/361,028
CURRENT FILING DATE: 2003-02-10
PRIORITY FILING DATE: 2000-11-03
PRIORITY APPLICATION NUMBER: JP 316133/1999
PRIORITY FILING DATE: 1998-11-05
NUMBER OF SEQ ID NOS: 56
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO: 53
LENGTH: 142
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: the nucleotide
US-10-361-028-53

Query Match 77.9%; Score 74; DB 18; Length 128;
Best Local Similarity 93.9%; Pred. No. 4.9e-18; Mismatches 5; Indels 0; Gaps 0;
Matches 77; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
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Db 1 ACCGUGACUUCGGUAGUGAGUGGUACACGGUACGGCAAGGGCCCG 60

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Best Local Similarity 93.9%; Pred. No. 4.9e-18; Mismatches 5; Indels 0; Gaps 0;
Matches 77; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
Qy 61 UUCGAAACCGGGGACCAACCA 82
Db 61 UUCGAAACCGGGGACCAACCA 82

RESULT 12
US-10-820-820-1
Sequence 1, Application US/108200820
Publication No. US20040198689A1
GENERAL INFORMATION:
APPLICANT: TAIRA, KAZUNARI
APPLICANT: ORKAWA, JUN
APPLICANT: KOSEKI, SHORI
TITLE OF INVENTION: EXPRESSION SYSTEMS FOR TRANSCRIPTION OF FUNCTIONAL
FILE REFERENCE: 09853.005-0000
PRIORITY APPLICATION NUMBER: US/10/820,820
CURRENT FILING DATE: 2004-04-09
PRIORITY APPLICATION NUMBER: US/09/163,590
PRIORITY FILING DATE: 2003-02-26
PRIORITY APPLICATION NUMBER: PCV/JP99/04718
PRIORITY FILING DATE: 1998-08-31
PRIORITY APPLICATION NUMBER: JP 10/244755
PRIORITY FILING DATE: 1998-08-31
NUMBER OF SEQ ID NOS: 25
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO: 1
LENGTH: 135
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:

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; OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
; OTHER INFORMATION: sequence of Rz2
; US-10-820-820-1

Query Match 76.8%; Score 73; DB 18; Length 135;
Best Local Similarity 93.8%; Pred. No. 1.2e-17; Mismatches 0; Indels 0; Gaps 0;
Matches 76; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 ACCGUNGUGUUCGUGAUGUGUGGUUAUCAGGUUCGUACACCGAAGGUCCCCGG 60
; PRIORITY INFORMATION:
; APPLICANT: TAIRA, KAZUHARU
; APPLICANT: OHKAWA, JUN
; APPLICANT: KOSEKI, SHIORI
; TITLE OF INVENTION: EXPRESSION SYSTEMS FOR TRANSCRIPTION OF FUNCTIONAL
; FILE REFERENCE: 04853.0059.0000
; CURRENT APPLICATION NUMBER: US/10/820.820
; CURRENT FILING DATE: 2004-04-09
; PRIOR APPLICATION NUMBER: US/09/763,590
; PRIOR FILING DATE: 2001-02-26
; PRIOR APPLICATION NUMBER: PCT/JP99/04718
; PRIOR FILING DATE: 1999-08-31
; PRIOR APPLICATION NUMBER: JP 10/244755
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 2
; LENGTH: 141
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE: OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
; OTHER INFORMATION: sequence of Rz2
; US-10-820-820-2

Query Match 73.5%; Score 69.8; DB 18; Length 149;
Best Local Similarity 97.3%; Pred. No. 2e-16; Mismatches 0; Indels 0; Gaps 0;
Matches 71; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 ACCGUNGUGUUCGUGAUGUGUGGUUAUCAGGUUCGUACACCGAAGGUCCCCGG 60
; PRIORITY INFORMATION:
; APPLICANT: TAIRA, KAZUHARU
; APPLICANT: OHKAWA, JUN
; APPLICANT: KOSEKI, SHIORI
; TITLE OF INVENTION: EXPRESSION SYSTEMS FOR TRANSCRIPTION OF FUNCTIONAL
; FILE REFERENCE: 04853.0059.0000
; CURRENT APPLICATION NUMBER: US/10/820.820
; CURRENT FILING DATE: 2004-04-09
; PRIOR APPLICATION NUMBER: US/09/763,590
; PRIOR FILING DATE: 2001-02-26
; PRIOR APPLICATION NUMBER: PCT/JP99/04718
; PRIOR FILING DATE: 1999-08-31
; PRIOR APPLICATION NUMBER: JP 10/244755
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 7
; LENGTH: 113
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE: OTHER INFORMATION: Description of Artificial Sequence: Sequence of an
; OTHER INFORMATION: antisense oligonucleotide linker
; US-10-820-820-7

Query Match 70.3%; Score 66.8; DB 18; Length 113;
Best Local Similarity 71.4%; Pred. No. 2.6e-15; Mismatches 0; Indels 0; Gaps 0;
Matches 50; Conservative 18; Mismatches 2; Indels 0; Gaps 0;

Qy 1 ACCGUNGUGUUCGUGAUGUGUGGUUAUCAGGUUCGUACACCGAAGGUCCCCGG 60
; PRIORITY INFORMATION:
; APPLICANT: TAIRA, KAZUHARU
; APPLICANT: OHKAWA, JUN
; APPLICANT: KOSEKI, SHIORI
; TITLE OF INVENTION: EXPRESSION SYSTEMS FOR TRANSCRIPTION OF FUNCTIONAL
; FILE REFERENCE: 04853.0059.0000
; CURRENT APPLICATION NUMBER: US/10/820.820
; CURRENT FILING DATE: 2004-04-09

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Tue Feb 22 13:22:42 2005

us-10-820-820-4.rnpb

Page 6

Search completed: February 18, 2005, 23:26:29
Job time : 314 secs

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OM nucleic - nucleic search, using sw model

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ALIGNMENTS

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; Sequence 8, Application US/10361028
; GENERAL INFORMATION:
; APPLICANT: TAIRA, KAZUNARI
; APPLICANT: WAKASHINA, MASAKI
; APPLICANT: KUWABARA, TOMOKO
; APPLICANT: KAWASAKI, HIROAKI
; TITLE OF INVENTION: FUNCTIONAL CHIMERIC MOLECULES CAPABLE OF SLIDING
; FILE REFERENCE: 081356/0151
; CURRENT APPLICATION NUMBER: US/10/361,028
; CURRENT FILING DATE: 2003-02-10
; PRIOR APPLICATION NUMBER: US/09/704,525
; PRIOR FILING DATE: 2000-11-03
; PRIOR APPLICATION NUMBER: JP 316133/1999
; PRIOR FILING DATE: 1999-11-05
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO: 8
; LENGTH: 95
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE: OTHER INFORMATION: Description of Artificial Sequence: the nucleotide
; OTHER INFORMATION: sequence of the transcript of the human placental tRNAval
; US-10-361-028-8

Query Match 100.0%; Score 95; DB 53; Length 95;
Best Local Similarity 100.0%; Pred. No. 4e-25; 0; Mismatches 0; Indels 0; Gaps 0;
Matches 95; Conservative 0; MisMatches 0; Del 0; Insert 0; Gap 0;

Qy 1 ACCGUGAGAUUCCGGAGAGGCGCG 60
Db 1 ACCGUGAGAUUCCGGAGAGGCGCG 60
Qy 61 UUCGAAACCGGGCGAACAGAACAG 95
Db 61 UUCGAAACCGGGCGAACAGAACAG 95

RESULT 4
US-10-820-820-4
; GENERAL INFORMATION:
; APPLICANT: TAIRA, KAZUNARI
; APPLICANT: OHKAWA, JUN
; APPLICANT: KOSEKI, SHIORI
; TITLE OF INVENTION: EXPRESSION SYSTEMS FOR TRANSCRIPTION OF FUNCTIONAL
; TITLE OF INVENTION: NUCLEIC ACIDS
; FILE REFERENCE: 04053-00000
; CURRENT APPLICATION NUMBER: US/10/820,820
; CURRENT FILING DATE: 2004-04-09
; PRIOR APPLICATION NUMBER: US/09/763,590
; PRIOR FILING DATE: 2001-02-26
; PRIOR APPLICATION NUMBER: PCT/JP99/04718
; PRIOR FILING DATE: 1999-08-31
; PRIOR APPLICATION NUMBER: JP 10/244755
; PRIOR FILING DATE: 1998-08-31
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO: 4
; LENGTH: 95
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE: OTHER INFORMATION: Description of Artificial Sequence: the nucleotide
; OTHER INFORMATION: sequence of the transcript of the human placental tRNAval
; US-10-820-820-4

Query Match 100.0%; Score 95; DB 63; Length 95;
Best Local Similarity 100.0%; Pred. No. 4e-25; 0; Mismatches 0; Indels 0; Gaps 0;
Matches 95; Conservative 0; MisMatches 0; Del 0; Insert 0; Gap 0;

Qy 1 ACCGUGAGAUUCCGGAGAGGCGCG 60
Db 1 ACCGUGAGAUUCCGGAGAGGCGCG 60

RESULT 5
US-09-623-932-3
; Sequence 3, Application US/09623932
; GENERAL INFORMATION:
; APPLICANT: DIRECTOR-GENERAL OF INDUS. SCIENCE & TECH. AGENCY
; APPLICANT: TAISHO PHARMACEUTICAL CO., LTD.
; TITLE OF INVENTION: NUCLEIC ACID ENZYME HAVING ALLOSTERIC RNA-CLEAVING
; TITLE OF INVENTION: ACTIVITY ON TARGET RNA
; FILE REFERENCE: Q60764
; CURRENT APPLICATION NUMBER: US/09/623,932
; CURRENT FILING DATE: 2000-09-12
; NUMBER OF SEQ ID NOS: 4
; SEQ ID NO: 3
; LENGTH: 88
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE: OTHER INFORMATION: Description of Artificial Sequence: The nucleotide
; OTHER INFORMATION: sequence of the transcript of the human placental tRNAval
; US-09-623-932-3

Query Match 78.7%; Score 74.8; DB 28; Length 88;
Best Local Similarity 91.9%; Pred. No. 1.e-17; 0; Mismatches 7; Indels 0; Gaps 0;
Matches 79; Conservative 0; MisMatches 7; Del 0; Insert 0; Gap 0;

Qy 1 ACCGUGAGAUUCCGGAGAGGCGCG 60
Db 1 ACCGUGAGAUUCCGGAGAGGCGCG 60

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RESULT 7
; Sequence 5, Application US/09974974
; GENERAL INFORMATION:
; APPLICANT: Kazunari TAIRA
; APPLICANT: Tomoko WARASHINA
; TITLE OF INVENTION: target RNA by recognizing another molecule
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/09/974,974
; CURRENT FILING DATE: 2002-03-14
; PRIORITY NUMBER: JP 2000-313320
; PRIORITY FILING DATE: 2000-10-13
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 88
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE: OTHER INFORMATION: Description of Artificial Sequence: tRNAval promoter sequence
; US-09-974-974-5

RESULT 8
Query Match 78.7%; Score 74.8; DB 44; Length 88;
Best Local Similarity 91.9%; Pred. No. 1.8e-17; Mismatches 0; Indels 0; Gaps 0;
Matches 79; Conservative 0; MisMatches 7; Indels 0; Gaps 0;
; Sequence 3, Application US/10475851A
; GENERAL INFORMATION:
; APPLICANT: TAIRA, Kazunari
; APPLICANT: WARASHINA, Tomoko
; APPLICANT: KAWASAKI, Hiroaki
; APPLICANT: HARA, Toshihumi
; APPLICANT: NOZAWA, Iwao
; TITLE OF INVENTION: Novel Maxizyme
; FILE REFERENCE: P2426
; CURRENT APPLICATION NUMBER: US/10/475,851A
; CURRENT FILING DATE: 2003-10-31
; PRIORITY NUMBER: PCT/JP02/04322
; PRIORITY FILING DATE: 2002-04-30
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3
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; ORGANISM: Homo sapiens
; US-10-475-851A-3

Query Match 78.7%; Score 74.8; DB 55; Length 88;
Best Local Similarity 91.9%; Pred. No. 1.8e-17; Mismatches 0; Indels 0; Gaps 0;
Matches 79; Conservative 0; MisMatches 7; Indels 0; Gaps 0;
; Sequence 5, Application US/09974974
; GENERAL INFORMATION:
; APPLICANT: Kazunari TAIRA
; APPLICANT: Tomoko WARASHINA
; TITLE OF INVENTION: target RNA by recognizing another molecule
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/09/974,974
; CURRENT FILING DATE: 2002-03-14
; PRIORITY NUMBER: JP 2000-313320
; PRIORITY FILING DATE: 2000-10-13
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 88
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE: OTHER INFORMATION: Description of Artificial Sequence: tRNAval promoter sequence
; US-09-974-974-5

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Best Local Similarity 91.9%; Pred. No. 1.8e-17; Mismatches 0; Indels 0; Gaps 0;
Matches 79; Conservative 0; MisMatches 7; Indels 0; Gaps 0;
; Sequence 1, Application US/10512386
; GENERAL INFORMATION:
; APPLICANT: NATIONAL INSTITUTE OF ADVANCED INDUSTRIAL SCIENCE AND TECHNOLOGY
; TITLE OF INVENTION: EXPRESSION SYSTEM FOR STEM-LOOP RNA MOLECULES HAVING RNAI EFFECT
; FILE REFERENCE: GTU-A0203YR
; CURRENT APPLICATION NUMBER: US/10/512,386
; CURRENT FILING DATE: 2004-10-25
; PRIORITY NUMBER: JP 2002-127089
; PRIORITY FILING DATE: 2002-04-26
; PRIORITY NUMBER: JP 2003-4705
; PRIORITY FILING DATE: 2003-01-10
; PRIORITY APPLICATION NUMBER: US 60/449,860
; PRIORITY FILING DATE: 2003-02-27
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 88
; TYPE: RNA
; ORGANISM: Homo sapiens
; US-10-512-386-1

RESULT 10
Query Match 78.7%; Score 74.8; DB 56; Length 88;
Best Local Similarity 91.9%; Pred. No. 1.8e-17; Mismatches 0; Indels 0; Gaps 0;
Matches 79; Conservative 0; MisMatches 7; Indels 0; Gaps 0;
; Sequence 16, Application US/09718098
; GENERAL INFORMATION:
; APPLICANT: TANAKA, MANAMI
; TITLE OF INVENTION: RIBOZYMES TARGETING BRADENTON TRANSCRIPTS AND USES THEREOF
; FILE REFERENCE: 081356/0155
; CURRENT APPLICATION NUMBER: US/09/718,098
; CURRENT FILING DATE: 2000-11-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 16
; LENGTH: 91
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE: OTHER INFORMATION: Description of Artificial Sequence: A mutant tRNA(Val)
; OTHER INFORMATION: promoter
; US-09-718-098-16

Query Match 78.7%; Score 74.8; DB 32; Length 91;
Best Local Similarity 70.9%; Pred. No. 1.8e-17; Mismatches 61; Conservative 18; MisMatches 7; Indels 0; Gaps 0;
Matches 1; Conservative 0; MisMatches 1; Indels 0; Gaps 0;
; Sequence 1, Application US/10512386
; GENERAL INFORMATION:
; APPLICANT: NATIONAL INSTITUTE OF ADVANCED INDUSTRIAL SCIENCE AND TECHNOLOGY
; TITLE OF INVENTION: EXPRESSION SYSTEM FOR STEM-LOOP RNA MOLECULES HAVING RNAI EFFECT
; FILE REFERENCE: GTU-A0203YR
; CURRENT APPLICATION NUMBER: US/10/512,386
; CURRENT FILING DATE: 2004-10-25
; PRIORITY NUMBER: JP 2002-127089
; PRIORITY FILING DATE: 2002-04-26
; PRIORITY NUMBER: JP 2003-4705
; PRIORITY FILING DATE: 2003-01-10
; PRIORITY APPLICATION NUMBER: US 60/449,860
; PRIORITY FILING DATE: 2003-02-27
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 91
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-512-386-1

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Qy 61 UUCGAACCGGGGGAAACAAAGACA 86
 Qy ::|||||||::|||||||:|||||||:|||||||:
 Db 61 TTGGAACCGGGCACTACAAACCA 86
 ;
 ; GENERAL INFORMATION:
 ; APPLICANT: Taisho Pharmaceutical Co., Ltd.
 ; TITLE OF INVENTION: Nucleic acid enzyme having allosteric RNA-cleaving activity on ta
 ; FILE REFERENCE: Q60764
 ; CURRENT APPLICATION NUMBER: US/09/623, 932A
 ; CURRENT FILING DATE: 2000-09-12
 ; PRIOR APPLICATION NUMBER: JP 60369/1998
 ; PRIOR FILING DATE: 1998-03-12
 ; PRIOR APPLICATION NUMBER: JP 311098/1998
 ; PRIOR FILING DATE: 1998-10-30
 ; PRIOR APPLICATION NUMBER: PCT/JP99/01187
 ; PRIOR FILING DATE: 1999-03-11
 ; NUMBER OF SEQ ID NOS: 27
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO: 20
 ; LENGTH: 128
 ; TYPE: RNA
 ; ORGANISM: Artificial sequence
 ; FEATURE:
 ; OTHER INFORMATION: Component of tRNAval-MzR
 ; US-09-623, 932A-20

Query Match 78.7%; Score 74.8; DB 28; Length 128;
 Best Local Similarity 91.9%; Pred. No. 2e-17; Matches 79; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy 1 ACCGUNGAGUUCGGAGUGUGUGGUTAUCAUCAGUCCACACCGGAAGGGUCCCG 60
 Db 1 ACCGUNGAGUUCGGAGUGUGUGGUTAUCAUCAGUCCACACCGGAAGGGUCCCG 60

Qy 61 UUCGAACCGGGGGCACTACAAACCA 86
 Db 61 UUCGAACCGGGGGCACTACAAACCA 86

RESULT 12
 ; Sequence 18, Application US/09623932A
 ; GENERAL INFORMATION:
 ; APPLICANT: Taisho Pharmaceutical Co., Ltd.
 ; TITLE OF INVENTION: Nucleic acid enzyme having allosteric RNA-cleaving activity on ta
 ; FILE REFERENCE: Q60764
 ; CURRENT APPLICATION NUMBER: US/09/623, 932A
 ; CURRENT FILING DATE: 2000-09-12
 ; PRIOR APPLICATION NUMBER: JP 60369/1998
 ; PRIOR FILING DATE: 1998-03-12
 ; PRIOR APPLICATION NUMBER: JP 311098/1998
 ; PRIOR FILING DATE: 1998-10-30
 ; PRIOR APPLICATION NUMBER: PCT/JP99/01187
 ; PRIOR FILING DATE: 1999-03-11
 ; NUMBER OF SEQ ID NOS: 27
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO: 18
 ; LENGTH: 135
 ; TYPE: RNA
 ; ORGANISM: Artificial sequence
 ; FEATURE:
 ; OTHER INFORMATION: Component of tRNAval-MzR
 ; US-09-623, 932A-18

Query Match 78.7%; Score 74.8; DB 28; Length 135;
 Best Local Similarity 91.9%; Pred. No. 2e-17; Length 135;

RESULT 13
 ; Sequence 2, Application US/09984198A
 ; GENERAL INFORMATION:
 ; APPLICANT: Taira, Kazunari
 ; ORGANISM: Sano, Masayuki
 ; TITLE OF INVENTION: METHODS FOR SELECTING HIGHLY FUNCTIONAL NUCLEIC ACID MOLECULES
 ; FILE REFERENCE: 4853_0080-00
 ; CURRENT APPLICATION NUMBER: US/09/984, 198A
 ; CURRENT FILING DATE: 2001-10-29
 ; PRIOR APPLICATION NUMBER: 331347/2000
 ; PRIOR FILING DATE: 2000-10-30
 ; NUMBER OF SEQ ID NOS: 4
 ; SOFTWARE: PatentIn version 3.2
 ; SEQ ID NO: 2
 ; LENGTH: 137
 ; TYPE: RNA
 ; ORGANISM: Artificial sequence
 ; FEATURE:
 ; OTHER INFORMATION: Sequence of tRNA-LUC GUA Rz
 ; NAME/KEY: misc_feature
 ; LOCATION: (70)..(91)
 ; OTHER INFORMATION: 22mer random sequence
 ; US-09-984, 198A-2

Query Match 78.7%; Score 74.8; DB 45; Length 137;
 Best Local Similarity 91.9%; Pred. No. 2e-17; Matches 79; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy 1 ACCGUNGAGUUCGGAGUGUGUGGUTAUCAUCAGUCCACACCGGAAGGGUCCCG 60
 Db 1 ACCGUNGAGUUCGGAGUGUGUGGUTAUCAUCAGUCCACACCGGAAGGGUCCCG 60

Qy 61 UUCGAACCGGGGGCACTACAAACCA 86
 Db 61 UUCGAACCGGGGGCACTACAAACCA 86

RESULT 14
 ; Sequence 17, Application US/09974974
 ; GENERAL INFORMATION:
 ; APPLICANT: Kazunari TAIRA
 ; APPLICANT: Masahiro WAKASHIMA
 ; APPLICANT: Tomoko WAKASHIMA
 ; TITLE OF INVENTION: Nucleic acid enzymes acquiring an activity for cleaving a
 ; FILE REFERENCE:
 ; CURRENT APPLICATION NUMBER: US/09/974, 974
 ; CURRENT FILING DATE: 2002-03-14
 ; PRIOR APPLICATION NUMBER: JP 2000-311320
 ; PRIOR FILING DATE: 2000-10-13
 ; NUMBER OF SEQ ID NOS: 17
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO: 17
 ; LENGTH: 138
 ; TYPE: RNA
 ; ORGANISM: Artificial sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: tRNAval-T-MzL
 ; US-09-974, 974-17

US-09-974-974-17

Query Match 78.7%; Score 74.8; DB 44; Length 138;
 Best Local Similarity 91.9%; Pred. No. 2e-17; Mismatches 7; Indels 0; Gaps 0;
 Matches 79; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy 1 ACCGUGUAGUUVCCGUAGUAGUAGUAGUACGUUCGCCAACCGCGAAAGAUCCCGG 60
 Db 1 ACCGUGUAGUUVCCGUAGUAGUAGUAGUACGUUCGCCAACCGCGAAAGAUCCCGG 60

Qy 61 UUCGAAACCGGGCACUACACACCA 86
 Db 61 UUCGAAACCGGGCACUACACACCA 86

RESULT 15

US-09-704-525-52

; Sequence 52, Application US/09704525
 ; GENERAL INFORMATION:
 ; APPLICANT: TAITRA, KAZUNARI
 ; APPLICANT: WARASHINA, MASAKI
 ; APPLICANT: KUMABARA, TOMOKO
 ; APPLICANT: KAWASAKI, HIROAKI
 ; TITLE OF INVENTION: FUNCTIONAL CHIMERIC MOLECULES CAPABLE OF SLIDING
 ; PILE REFERENCE: 81356/0151
 ; CURRENT APPLICATION NUMBER: US/09/704,525
 ; CURRENT FILING DATE: 2000-11-03
 ; PRIOR APPLICATION NUMBER: JP 316133/1999
 ; PRIOR FILING DATE: 1999-11-05
 ; NUMBER OF SEQ ID NOS: 56
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 52
 ; LENGTH: 141
 ; TYPE: RNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: the nucleotide
 ; OTHER INFORMATION: Sequence of CPP Rz4
 ; US-09-704-525-52

Query Match 78.7%; Score 74.8; DB 32; Length 141;
 Best Local Similarity 91.9%; Pred. No. 2e-17; Mismatches 7; Indels 0; Gaps 0;
 Matches 79; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy 1 ACCGUGUAGUUVCCGUAGUAGUAGUAGUACGUUCGCCAACCGCGAAAGAUCCCGG 60

Db 1 ACCGUGUAGUUVCCGUAGUAGUAGUAGUACGUUCGCCAACCGCGAAAGAUCCCGG 60

Qy 61 UUCGAAACCGGGCACUACACACCA 86
 Db 61 UUCGAAACCGGGCACUACACACCA 86

Search completed: February 18, 2005, 23:15:43
 Job time : 2448 secs